SCD-1/777ES

SERVICE MANUAL

For Primary Service

US Model
Canadian Model
AEP Model

Photo: SCD-1

Though the appearance of SCD-777ES differs from that of SCD-1, the structure and contents are almost same, and therefore typically the SCD-1 is described, except remarks.

Model Name Using Similar Mechanism	NEW
CD Mechanism Type	BU-23
Optical Pick-up Type	KHS-180A/J1N

SPECIFICATIONS

When a super audio CD is played

Playing frequency range 2 Hz to 100 kHz

Frequency response 2 Hz to 50 kHz (–3 dB)

Dynamic range 105 dB or more

Total harmonic distortion rate 0.0012 % or less

Wow and flutter Value of measurable limit (±0.001 % W. PEAK) or less

When a CD is played

Frequency response 2 Hz to 20 kHz

Dynamic range 100 dB or more

Total harmonic distortion rate 0.0017 % or less

Wow and flutter Value of measurable limit (±0.001 % W. PEAK) or less

Output connector

	Jack type	Output level	Load impedance
LINE OUT UNBALANCED (SCD-1) ANALOG OUT (SCD-777ES)	Phono jacks	2 Vrms (at 50 kilohms)	Over 10 kilohms
LINE OUT BALANCED (SCD-1)	XLR	4 Vrms (at 50 kilohms)	Over 600 ohms
DIGITAL OUT OPTICAL*	Square optical output connector	–18 dBm	(Light emitting wave length: 660 nm)
DIGITAL OUT COAXIAL*	Coaxial output connector	0.5 Vp-p	75 ohms

*Output only the audio signals of the CD

– Continued on next page –

SUPER AUDIO CD PLAYER

MICROFILM

SONY

General

Laser	Semiconductor laser (λ = 780,650 nm) Emission duration: continuous
Power requirements	
European models:	230 V AC, 50/60 Hz
USA and Canadian models:	120 V AC, 60 Hz
Power consumption	36 W
Dimensions (w/h/d)	430 × 149 × 436 mm (17 × 5 7/8 × 17 1/4 in.) incl. projecting parts
Mass (approx.)	26.5 kg (58 lbs 7 oz.) (SCD-1) 25 kg (55 lbs 2 oz.) (SCD-777ES)

Supplied accessories

- Audio connecting cord (phono jack × 2 ⟷ phono jack × 2) (1)
- Mains lead (1)
- Plug adapter (U.S.A. and Canadian models only) (1)
- Stabilizer (1)
- Remote commander (remote) RM-DS1 (1)
- R03 (size-AAA) batteries (2)

Design and specifications are subject to change without notice.

Laser radiant power: 1.52 µW at 780 nm (for CD)
5.47 µW at 650 nm (for SACD)
* These output is the value measured at a distance of about 200 mm form the objective lense surface on the optical pick-up.

Parts List (Accessories)

Ref. No.	Part No.	Description	Remark
	1-418-347-11	REMOTE COMMANDER (RMD-DS1)	
	1-506-411-21	ADAPTOR, AC PLUG 3P-2P (US, Canadian)	
	1-551-631-22	CORD, POWER (AEP)	
	1-551-812-11	CORD, POWER (US, Canadian)	
	1-558-271-11	CORD, CONNECTION	
	3-865-537-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH)	(SCD-1)
	3-865-537-21	MANUAL, INSTRUCTION (GERMAN, SPANISH, DUTCH)	(SCD-1: AEP)
	3-865-537-31	MANUAL, INSTRUCTION (SWEDISH, ITALIAN, PORTUGUESE)	(SCD-1: AEP)
	3-868-032-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH)	(SCD-777ES)
	3-868-032-21	MANUAL, INSTRUCTION (GERMAN, SPANISH, DUTCH)	(SCD-777ES: AEP)
	3-868-032-31	MANUAL, INSTRUCTION (SWEDISH, ITALIAN, PORTUGUESE)	(SCD-777ES: AEP)
	4-214-892-01	COVER, BATTERY (for RMD-DS1)	
	4-222-473-01	DISC (SACD)	
	A-4672-800-A	STABILIZER ASSY	

Features

Playback of the Super Audio CD recorded in the DSD format

The DSD (Direct Stream Digital) format is the core technology of a Super Audio CD, allowing music reproduction that is extremely faithful to the original sound.
The DSD format, using a 2.8224 MHz sampling frequency 64 times higher than that of a conventional CD, and the 1-bit quantization, makes possible recording of more than four times the data information of the PCM format which is used for a conventional CD.
Different from the PCM format which performs data decimation and interpolation via digital filters, the DSD format adopts the simple playback process. In other words, the A/D converted 1-bit digital signal only passes through an analog low-pass filter before playback.
As a whole, the DSD format achieves both a wide frequency range of theoretically over 100 kHz, and a wide dynamic range across the audible frequency range at the same time, and results in high-quality music reproduction faithful to the original sound.
To play back a Super Audio CD recorded in the DSD format with exceptional quality, the SCD-1/777ES employs a newly developed DSD decoder and D/A converter system, as well as a chassis and loading mechanism especially designed for this unit.

Playback of a conventional CD with higher quality

The SCD-1/777ES can also play back a conventional CD with higher quality than a conventional CD player. To provide enhanced quality, the SCD-1/777ES employs various advanced technologies. For example, two independent optical pickups ar e incorporated; one is for Super Audio CDs, and the other for conventional CDs.
In addition, a 24-bit precision variable coefficient (V.C.) digital filter is provided for CD playback (see page 19). By selecting one of five filters which have different cutoff characteristics, you can adjust the tone quality in accordance with the music source or your audio system.

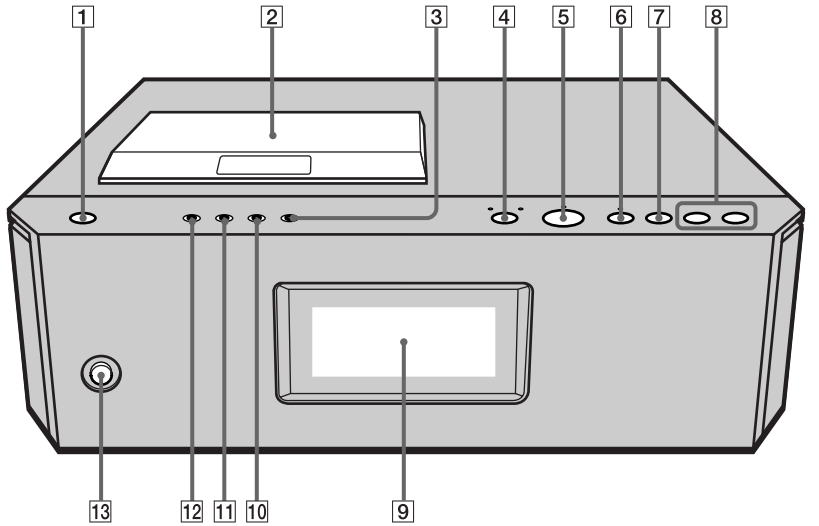
Others

- A Super Audio CD can mark up to 255 track/index numbers. Corresponding to that format, the SCD-1/777ES incorporates a large 3-digit display
- The supplied remote is capable of controlling either the SCD-1/777ES and a conventional Sony CD player. (See 4 (SCD-1) or 2 (SCD-777ES) COMMAND MODE selector on page 10 and 1 CD1/ CD2 selector on page 11.)

Location and Functions of Parts

This chapter tells you about the location and functions of the various buttons and controls on the front and rear panels and the supplied remote. Further details are provided on the pages indicated in parentheses.
It also tells you about the information that appears in the display window.

Front Panel Parts Descriptions



1 ⏏ **button (12)**
Press to open the disc lid.

2 **Disc lid (12)**
Press ⏏ to open/close the disc lid.

3 **FILTER button (19)**
Press to select the digital filter type when playing a CD.

4 **SACD/CD button (12)**
Each time you press the button while the player is stopped, the SACD or CD indicator on the upper side of the player lights. Select the indicator that matches the type of CD you want to play. For details on the type of discs you can play, see "Compatible Disc Types" on page 7.

5 ▷ **button (12)**
Press to start play.

6 ❚❚ **button (13)**
Press to pause play.

7 ■ **button (13)**
Press to stop play.

8 ⏮/⏭ **button (13)**
Each time you press ⏮, you go back to the preceding track; each time you press ⏭, you go to the succeeding track.

9 **Display window (Remote sensor) (13)**
Shows various information.

10 **DIGITAL OUT button (5)**
Press when a component is connected to the DIGITAL OUT connectors. Each time you press the button, the display switches between "16 bit" (the audio signals of a CD can be output) and "OFF" (the audio signals of a CD cannot be output).

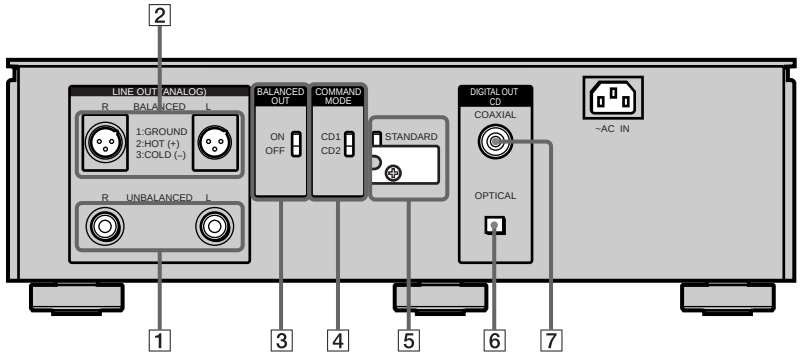
11 **TEXT button (14)**
Shows TEXT information when the player detects a TEXT disc.

12 **TIME button (13)**
Each time you press the button, the playing time of the track and the total remaining time on the disc appear in the display.

13 ⏻ **(power) switch (12)**
Press to turn on the player.

This section is extracted from instruction manual.

Rear Panel Parts Descriptions (SCD-1)



1 **LINE OUT (ANALOG) UNBALANCED jacks (5)**
Connect to an audio component using the audio connecting cord.

2 **LINE OUT (ANALOG) BALANCED connectors (5)**
Connect to an audio component using the XLR (balanced) cord.

3 **BALANCED OUT ON/OFF switch (5)**
Set to ON when the audio component is connected to the LINE OUT BALANCED connectors. In case of another connection, set it to OFF.

4 **COMMAND MODE selector**
Normally set to CD1. When you connect a Sony CD player other than this player, set to CD2. In this case, you can control both the other Sony CD player and this player with CD1/CD2 on the remote. Set to CD1 to control the other Sony CD player, or CD2 to control this player.

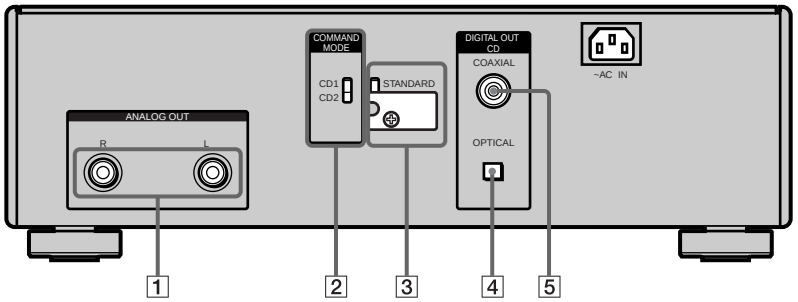
5 Switches depending on amplifier to be connected. For details, see "About the Switch Marked "STANDARD" on the rear panel of the player" on page 6.

6 **DIGITAL OUT (CD) OPTICAL connector (5)**
Connect to an audio component using an optical digital cable.

7 **DIGITAL OUT (CD) COAXIAL connector (5)**
Connect to an audio component using the coaxial digital cable.

Note
Only the audio signals of the CD can be output from the DIGITAL OUT connectors shown in 6 and 7. Those of the Super Audio CD cannot be output through DIGITAL OUT.

Rear Panel Parts Descriptions (SCD-777ES)



1 **ANALOG OUT jacks (5)**
Connect to an audio component using the audio connecting cord.

2 **COMMAND MODE selector**
Normally set to CD1. When you connect a Sony CD player other than this player, set to CD2. In this case, you can control both the other Sony CD player and this player with CD1/CD2 on the remote. Set to CD1 to control the other Sony CD player, or CD2 to control this player.

3 Switches depending on amplifier to be connected. For details, see "About the Switch Marked "STANDARD" on the rear panel of the player" on page 6.

4 **DIGITAL OUT CD OPTICAL connector (5)**
Connect to an audio component using an optical digital cable.

5 **DIGITAL OUT CD COAXIAL connector (5)**
Connect to an audio component using the coaxial digital cable.

Note
Only the audio signals of the CD can be output from the DIGITAL OUT CD connectors shown in 4 and 5. Those of the Super Audio CD cannot be output through DIGITAL OUT CD.

Remote Parts Descriptions

1 **CD1/CD2 selector**
Select when you connect a Sony CD player other than this player. Set to CD1 to control the other Sony CD player, or CD2 to control this player. In this case, you have to set the COMMAND MODE selector on the rear panel to CD2.

2 **CONTINUE button (17, 18)**
Press to resume normal play from Shuffle Play or Programme Play

SHUFFLE button (17)
Press to select Shuffle Play

PROGRAM button (18)
Press to select Programme Play

3 **TEXT/ENTER button (14, 15)**
Shows the TEXT information when the player detects a TEXT disc.

4 **LANGUAGE button (15)**
Press to change the displayed language if the TEXT disc has several languages.

5 **Number buttons (15)**
Press to enter the track numbers.

6 **▷ button (12)**
Press to start play

II button (13)
Press to pause play

■ button (13)
Press to stop play

7 **AMS I◀◀ /▶▶I (AMS: Automatic Music Sensor) buttons (13, 15)**
Press to locate a specific track.

8 **◀◀/▶▶ buttons (16)**
Press to locate a portion you want to play within a track.

9 **INDEX —/— buttons (16)**
Press to locate a specific point marked with an index signal when you play a disc that has index signals.

10 **FILTER button (19)**
Press to select the digital filter type when a CD is played.

11 **SACD/CD button (12)**
Each time you press the button, the SACD or CD indicator on the front of the player lights. Select the indicator that matches the type of CD you want to play

12 **TIME button (13)**
Each time you press the button, the playing time of the track and the remaining time on the disc appear in the display

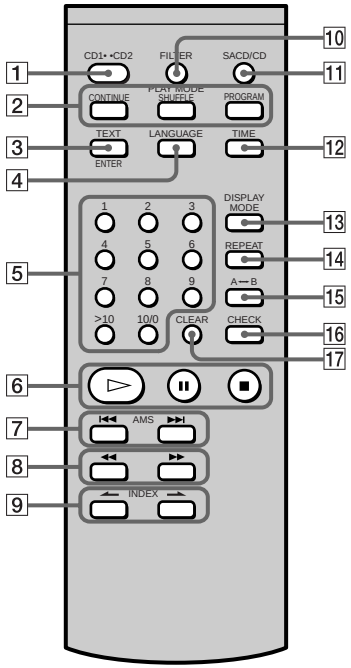
13 **DISPLAY MODE button (14)**
Press to turn off the information.

14 **REPEAT button (16)**
Press repeatedly to play all tracks or only one track on the disc.

15 **A↔B button (17)**
Press to select Repeat A-B Play

16 **CHECK button (18)**
Press to check the programmed order

17 **CLEAR button (18)**
Press to delete a programmed track number



Getting Started

This chapter provides information on the supplied accessories and how to connect various audio components to the SuperAudio CD player. Be sure to read this chapter thoroughly before you actually connect anything to the player.

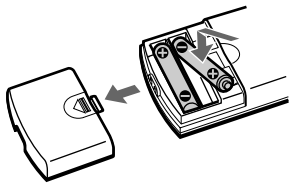
Before You Start the Hookup

Checking the supplied accessories

This player comes with the following items:
- Audio connecting cord (phono jack × 2 ⟷ phono jack × 2) (1)
- Mains lead (1)
- Plug adapter (U.S.A. and Canadian models only) (1)
- Stabilizer (1)
- Remote commander (remote) RM-DS1 (1)
- R03 (size-AAA) batteries (2)

Inserting batteries into the remote

Insert two R03 (size-AAA) batteries into the battery compartment with the + and – correctly oriented to the markings. When using the remote, point it at the remote sensor ▣ on the player.



When to replace the batteries
Under normal conditions, the batteries should last for about six months. When the remote no longer operates the player, replace both batteries with new ones.

Notes
- Do not leave the remote in an extremely hot or humid place.
- Do not drop any foreign object into the remote casing, particularly when replacing the batteries.
- Do not use a new battery with an old one.
- Do not expose the remote sensor to direct sunlight or lighting apparatus. Doing so may cause a malfunction.
- If you do not intend use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

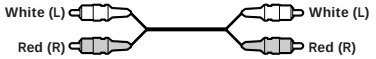
Hooking Up the Audio Components (SCD-1)

Connect the Super Audio CD player to an audio component. Be sure to turn off the power of all components before making connections and connect securely to prevent noise.

Connecting via LINE OUT UNBALANCED jacks

Use an audio connecting cord for this connection. Be sure to match the colour-coded pin to the appropriate jacks: white (left) to white and red (right) to red.

Audio connecting cord (supplied)



Connecting via LINE OUT BALANCED connectors

Use an XLR (balanced) cord for this connection. When connecting an XLR (balanced) cord to the LINE OUT BALANCED connectors, set the BALANCED OUT ON/OFF switch on the rear panel of the player to ON.

XLR (balanced) cord (not supplied)

Polarity of LINE OUT BALANCED connector

1: GROUND
2: HOT (+)
3: COLD (–)

Connecting via DIGITAL OUT OPTICAL connector

Use an optical digital cable for this connection. When connecting the optical digital cable to the DIGITAL OUT OPTICAL connector, take the cap off the connectors and push the cable plugs in until they click into place.
Be sure to show "16 bit" in the display by pressing DIGITAL OUT on the upper side of the player. Be careful not to bend or twist the optical cable.

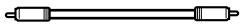
Optical digital cable (not supplied)

Note
Only the audio signals of the CD can be output from the DIGITAL OUT connectors. Those of the Super Audio CD cannot be output through DIGITAL OUT.

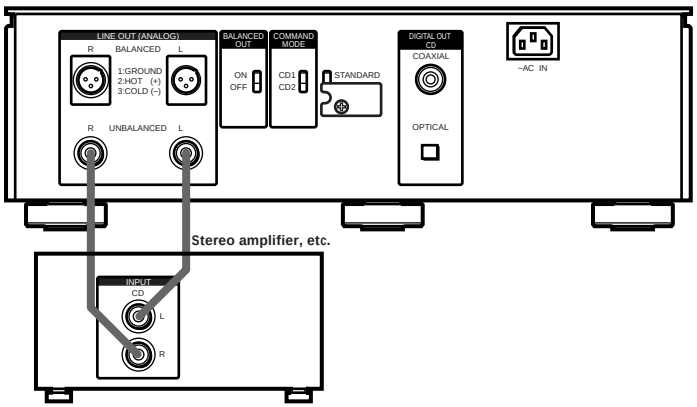
Connecting via DIGITAL OUT COAXIAL connector

Use a coaxial digital cable to connect the audio components equipped with coaxial digital input connectors. When connecting the coaxial digital cable, be sure to show "16 bit" in the display by pressing DIGITAL OUT on the upper side of the player.

Coaxial digital cable (not supplied)



Note
Only the audio signals of the CD can be output from the DIGITAL OUT connectors. Those of the Super Audio CD cannot be output through DIGITAL OUT.



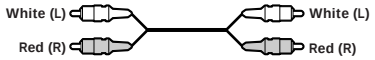
Hooking Up the Audio Components (SCD-777ES)

Connect the Super Audio CD player to an audio component. Be sure to turn off the power of all components before making connections and connect securely to prevent noise.

Connecting via ANALOG OUT jacks

Use an audio connecting cord for this connection. Be sure to match the colour-coded pin to the appropriate jacks: white (left) to white and red (right) to red.

Audio connecting cord (supplied)



Connecting via DIGITAL OUT CD OPTICAL connector

Use an optical digital cable for this connection. When connecting the optical digital cable to the DIGITAL OUT CD OPTICAL connector, take the cap off the connectors and push the cable plugs in until they click into place.
Be sure to show "16 bit" in the display by pressing DIGITAL OUT on the upper side of the player. Be careful not to bend or twist the optical cable.

Optical digital cable (not supplied)

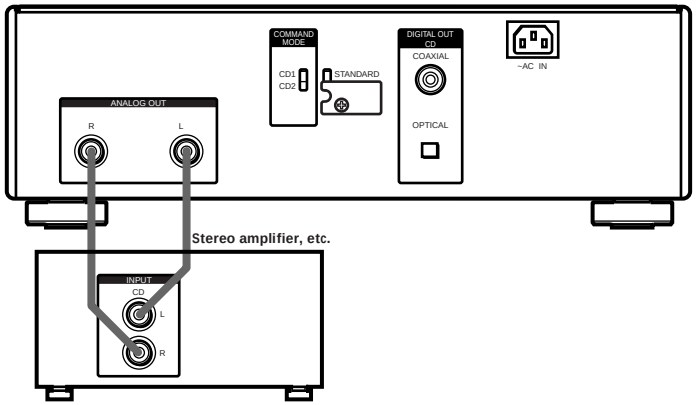
Note
Only the audio signals of the CD can be output from the DIGITAL OUT CD connectors. Those of the Super Audio CD cannot be output through DIGITAL OUT CD.

Connecting via DIGITAL OUT CD COAXIAL connector

Use a coaxial digital cable to connect the audio components equipped with coaxial digital input connectors. When connecting the coaxial digital cable, be sure to show "16 bit" in the display by pressing DIGITAL OUT on the upper side of the player.

Coaxial digital cable (not supplied)

Note
Only the audio signals of the CD can be output from the DIGITAL OUT CD connectors. Those of the Super Audio CD cannot be output through DIGITAL OUT CD.



About the Switch Marked "STANDARD" on the rear panel of the player

The Super Audio CD includes high frequencies beyond the audible range, although the design of normal amplifiers and speakers is based on characteristics corresponding to the audible range.
Therefore, if you increase the volume or treble excessively during Super Audio CD playback, noise may occur or the amplifier's protect circuit may be activated. To prevent these problems, set the switch at the rear of this player in accordance with the connected amplifier. This enables you to match the output signal to the amplifier characteristics.

Connecting to a normal amplifier

This switch is set to "STANDARD" at the factory. When you connect this player to a normal amplifier, leave the switch as it is. Never set it to "CUSTOM," otherwise noise may be produced or the speakers and the amplifier may be damaged.

Connecting to the Preamplifier TA-E1 (not supplied) and the Power Amplifier TA-N1 (not supplied) (SCD-1)

When you connect this player to the Preamplifier TA-E1 (not supplied) and the Power Amplifier TA-N1 (not supplied), remove the cover as illustrated below, and set the switch to "CUSTOM."
The "CUSTOM" mode enables you to enjoy wider range of frequencies.

Note
When you record the audio signals of a Super Audio CD to a tape deck (Cassette deck etc.), set the switch to "STANDARD" even if the player is connected to the Preamplifier TA-E1 and the Power Amplifier TA-N1.

Connecting to the units described below (SCD-777ES)

When you connect this player to the following units, remove the cover as illustrated below, then set the switch to "CUSTOM."

- TA-E1 (stereo preamplifier) and TA-N1 (stereo power amplifier)

European models only

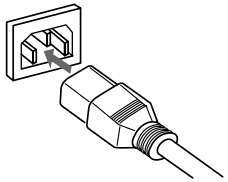
- T A-FA777ES (integrated stereo amplifier)

The "CUSTOM" mode enables you to enjoy a wider range of frequencies.

Note
When you record the audio signals of a Super Audio CD to a tape deck (Cassette deck etc.), set the switch to "STANDARD" even if the player is connected to the one of the units described above.

Hooking Up the Power

Connect the supplied mains lead to the AC IN terminal on the player.

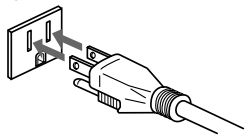


About the mains lead

European models only
Connect the supplied mains lead to the mains.

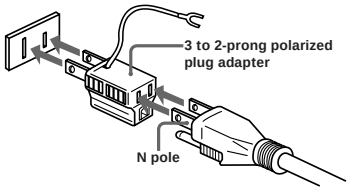
U.S.A. and Canadian models only
The supplied mains lead has a 3-pronged grounded plug. If you are using 3-pronged grounded mains, the plug can be inserted directly into the mains. However, if the socket is a 2-pronged grounded mains, use the supplied plug adapter or a commercially available plug adapter.

3-pronged grounded mains



2-pronged polarized mains

- **When the width of the mains are a different size**
  Use the supplied plug adapter.



- **When the width of the mains are the same size**
  Use a commercially available plug adapter. In this case, you can check the polarity of the mains with a commercially available spark-testing screwdriver. It is the pronged ground that does not light the neon grow lamp even if you insert the spark-testing screwdriver into the mains. Insert the blades so that the "N pole" can be inserted to the ground on the plug.

If noise (hum) is produced
Noise may be caused by an electric potential difference on the ground circuit.* In this case, use the supplied plug adapter and be careful not to connect the ground lead to anything.

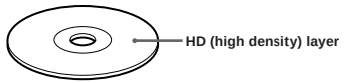
* Although the ground of the domestic mains is normally a safety ground, a few electrical potential differences may be produced, depending on the mains. Therefore, use of the supplied 3-pronged mains lead may lessen the quality of the audio signal or may produce humming noise.

Compatible Disc Types

You can play the following discs with this player. Depending on the type of disc to be played, select the appropriate indicator by pressing SACD/CD (pages 8, 12).

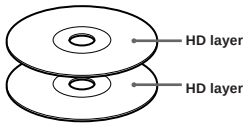
Super Audio CD (single layer disc)

This disc consists of a single HD layer*.
Press SACD/CD repeatedly so that the SACD indicator on the upper side of the player lights.
*High density signal layer for the Super Audio CD



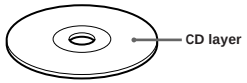
Super Audio CD (dual layer disc)

This disc consists of dual HD layers and is capable of extended play over long periods.
Press SACD/CD repeatedly so that the SACD indicator on the upper side of the player lights.
Also, as the dual layer disc consists of dual HD layers on one side only, it is not necessary to turn the disc over.



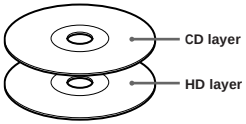
Conventional CD

This disc is the current format.
Press SACD/CD repeatedly so that the CD indicator on the upper side of the player lights.



Super Audio CD + CD (Hybrid disc)

This disc consists of an HD layer and a CD layer. Press SACD/CD to select the layer you want to listen to. Also, as the dual layers are on one side, it is not necessary to turn the disc over. You can play the CD layer using a conventional CD player.



Incompatible Discs
This player cannot play the following discs. If you try to play them, the error message "TOC Error" will appear or there will be no sound.

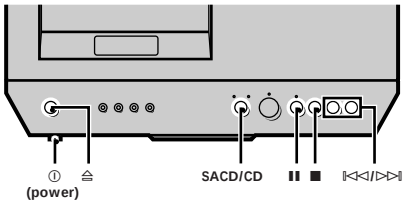
- CD-ROM
- DVD etc.

Playing Discs

This chapter explains the various ways to play discs.

Playing a Disc

The operations for normal play and the basic operations during play are explained below.

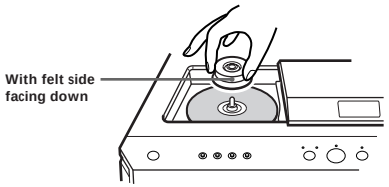


1 **Turn on the amplifier.**

2 **Select the player position using the input selector on the amplifier.**

3 **Press ⏻ (power) to turn on the player.**

4 **Press ⏏ to open the disc lid, and place a disc on the tray.**
Place the supplied stabilizer on the disc. If you do not, "No Stabilizer" appears in the display.



5 **Press SACD/CD to select the SACD or CD indicator.**
Each time you press the button, the SACD or CD indicator lights. Select the indicator that corresponds to the type of disc on the tray. For details, see page 7.

6 **Press ▷.**
When the disc lid is closed, "CLOSE," "Loading," and "TOC Reading" appear in sequence in the display. Then, playback starts from the first track. If you want to start playing from a specific track, press ⏮/⏭ repeatedly to select the track number before pressing ▷.

7 **Adjust the volume on the amplifier.**

Basic operations during play

To	Press
Stop play	■
Pause play	II
Resume play after pausing	II or ▷
Locate a succeeding track	⏭
Locate the beginning of the current track or a preceding track	⏮
Eject the disc	⏏

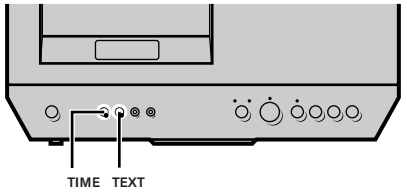
If you turn on the player when a disc is already loaded
Playback starts automatically. If you connect a commercially available timer, you can set it to start playing the disc at any time you want.

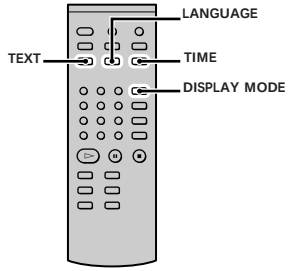
To select a layer you want to listen to when playing a hybrid disc (page 7)
After you stop play using ■, press SACD/CD repeatedly to light either the SACD or CD indicator.

Notes
- Remove the stabilizer when there is no disc in the player.
- The Super Audio CD player takes longer than a conventional CD player to start playing after the disc is loaded. This is not a malfunction. The player is automatically identifying the type of disc, adjusting the servomechanism or verifying the copyright protection in internal mechanisms of the inserted disc.

Using the Display

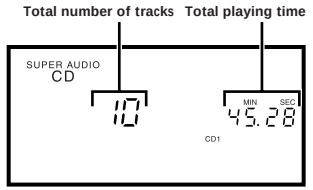
The display window shows various information about the disc or track being played. This section describes the information that appears for each play status.





Displaying information while the player is stopped

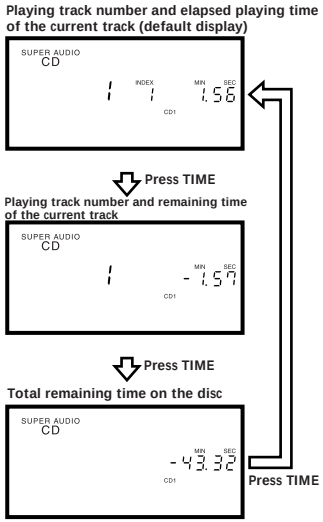
Press TIME.
The display shows the total number of tracks and total playing time on the disc.



Displaying information while the player is playing

Press TIME.

Each time you press the button, the current track number and its elapsed time or remaining time appears, or the total remaining time for the disc appears in the display.



Turning off the information in the display

Press DISPLAY MODE while the player is stopped or while playing a disc.

- For a disc which does not have TEXT
  When you press DISPLAY MODE once, "Display Off" appears in the display. When you press it while playing a disc, the whole display disappears after one second. To return to the normal display, press it again.
- For a disc which has TEXT
  When you press DISPLAY MODE once, the information of the TEXT disc disappears. When you press it again, "Display Off" appears. When you press it while playing a disc, the whole display disappears after one second. To return to the normal display, press it again.

Displaying the information of a TEXT disc

TEXT discs contain information, such as the disc name or artist name, as well as the audio signals. This player can display the disc name, artist name, and current track name as TEXT information.
When the player detects a TEXT disc, "TEXT" appears in the display. If your TEXT disc has several languages, "TEXT" and "MULTI" appear in the display. When you want to check the information in another language, see "Displaying the information of a TEXT disc in other languages" on page 15.

Displaying the information of a TEXT disc in stop mode

Press TEXT.

Each time you press the button, the disc name or artist name appears in the display. When you select the artist name, "ARTIST" appears in the display.

Display information of a TEXT disc while playing a disc

The current track name appears. If the disc name has more than 16 characters, the first 15 characters will remain after the name scrolls by in the display.

Notes

- The display may not show all the characters, depending on the disc.
- This player can display only the disc name, artist name and track names from TEXT discs. Other information cannot be displayed.

Displaying the information of a TEXT disc in other languages

You can change the displayed language if the TEXT disc has multi language capacity. When the player detects such a TEXT disc, "TEXT" and "MULTI" appear in the display. Change the language according to the procedures below.

1 Press LANGUAGE in stop mode.
The current selected language (English, French, German, etc.) flashes.
If the player cannot display the language memorized in a TEXT disc, "Other Lang" appears in the display.

2 Press LANGUAGE repeatedly until the desired language appears in the display.

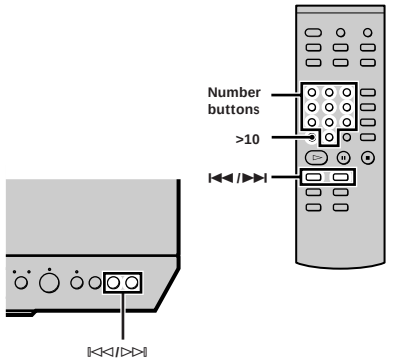
3 Press TEXT/ENTER.
The information appears in the selected language.

Notes

- If your TEXT disc memorized in one language, the name of that language appears for a few seconds in the display when you press LANGUAGE.
- When you press LANGUAGE while playing a TEXT disc, the name of the current selected language appears for a few seconds in the display.

Locating a Specific Track

During stop or play mode, you can locate any track to be played.



To go to	Do the following:
The next track (AMS*)	Press ▷▷I
A preceding track (AMS*)	Press I◁◁ repeatedly
The beginning of the current track (AMS*)	Press I◁◁ during play

* *Automatic Music Sensor*

Locating a track directly by entering the track number

Press the number button(s) to enter the track number.

To enter a track number over 11

1 Press >10.

2 Enter the corresponding digits.
To enter 0, press 10/0 instead.

Examples:

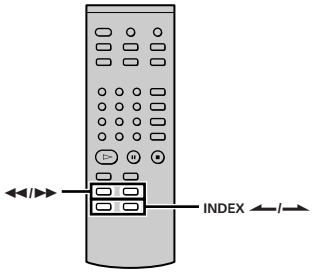
- To play track number 30, press >10, then 3 and 10/0.
- To play track number 100, press >10 twice, then 1, and 10/0 twice.

If you enter a track number while the player is paused

You cannot locate a track in pause mode. The player will still remain paused.

Locating a Particular Point in a Track

You can locate a particular point in a track during play or play pause.



Locating a point while monitoring the sound (Search)

Press and hold ◀◀/▶▶ during play.
You will hear intermittent playback as the disc goes forward or reverses.
When you reach the desired point, release the button.

Note
Tracks that are only a few seconds long may be too short for monitoring. In this case, the player may not search correctly.

Locating a point by observing the time indication (High-Speed Search)

Press down ◀◀/▶▶ during play pause.
You will not hear the playback sound.

When "Over" appears in the display
The disc has reached its end. Press ⏮ or ◀◀ to go back.

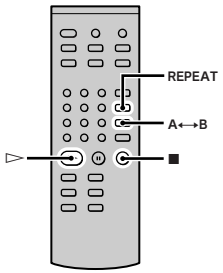
Locating a point using the index function (Index Search)

Press INDEX— or INDEX— repeatedly in play or pause mode.

What's an INDEX?
Some CDs are provided with an index marking system which divides tracks or discs into smaller segments. This is especially useful when you want to locate a certain point within a long track (in classical music for example). The index search function works only when you use a commercially available indexed discs (usually indicated on the label).

Playing Tracks Repeatedly

You can play an entire disc or portions thereof repeatedly. This function can be used with Shuffle Play to repeat all the tracks in random order (page 17), or with Programme Play to repeat all the tracks in a programme (page 18). You can also repeat a specific track or portion within a track.



Note
If you turn off the player or disconnect the mains lead, the player will store the last setting of repeat play ("Repeat All" or "Repeat 1") and recall it the next time you turn on the player. However, the setting of the Repeat A-B Play will be cancelled if you turn off the player or disconnect the mains lead.

Repeating all the tracks on the disc (Repeat All Play)

Press REPEAT once, then press ▷.
"REPEAT" appears in the display and Repeat All Play starts.
The repeat play changes depending on the play mode you select.

When the play mode is	The player repeats
Normal play (page 12)	All the tracks in sequence
Shuffle Play (page 17)	All the tracks in random order
Programme Play (page 18)	All the tracks in the programme in sequence

To stop Repeat All Play
Press ■.

To resume normal play
Press REPEAT repeatedly until "REPEAT" goes off.

Repeating the current track (Repeat 1 Play)

While the track you want to repeat is being played, press REPEAT repeatedly until "REPEAT 1" appears in the display.
Repeat 1 Play starts.

To stop Repeat 1 Play
Press ■.

To resume normal play
Press REPEAT repeatedly until "REPEAT" goes off.

Repeating a specific portion within a track (Repeat A-B Play)

You can specify one portion within a track to be played repeatedly. Note that the portion that you specify must be within the boundaries of a single track.

1 While the player is playing, press A↔B at the starting point (point A) of the portion to be played repeatedly.
"REPEAT" appears and " A-" flashes in the display.

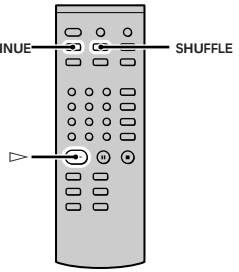
2 Continue playing the track (or press ▶▶) to locate the ending point (point B), then press A↔B.
"REPEAT A-B" appears and Repeat A-B Play starts.

To stop Repeat A-B Play and resume normal play
Press REPEAT or ■.

You can set a new starting point and ending point during Repeat A-B Play
You can change the current ending point to a new starting point, then specify a new ending point to repeat another portion right after the current portion.
1 During Repeat A-B Play, press A↔B.
The current ending point changes to the new starting point (point A).
"REPEAT" lights up and "A-" flashes in the display.
2 Locate the new ending point (point B) and press A↔B.
"REPEAT A-B" lights up and the player starts to repeat the newly specified portion.

Playing Tracks in Random Order (Shuffle Play)

When you select Shuffle Play, the player plays all the tracks on the disc in random order.



1 Press SHUFFLE in stop mode.

2 Press ▷.
Shuffle Play starts.
"🔀" appears while the player is "shuffling" the tracks.
The player will stop after playing all the tracks once.

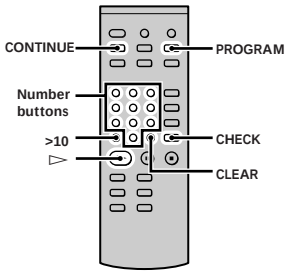
To resume normal play
Press CONTINUE.

You can locate tracks during Shuffle Play

Press ⏮/⏭.
Press ⏭ to locate the next track or press ⏮ to locate the beginning of the current track. The player does not go back to tracks which have already been played.

Creating Your Own Programme (Programme Play)

You can pick out the tracks that you like and specify the playback order in a programme containing up to 99 tracks (or 999 min. 59 sec. in total programme time)



1 **Press PROGRAM in stop mode.**
"PROGRAM" appears in the display.

2 **Press the number buttons to enter the track number.**

If you entered the wrong track number
Press CLEAR to erase the track number and reenter the correct track number using the number buttons.

To select a track number over 11
Press >10 (page 15).

3 **Repeat step 2 to enter other tracks.**
Each time you enter a track number, the total programme time appears in the display.

4 **Press ▷.**
Programme Play starts.

To resume normal play
Press CONTINUE.

The programme remains even after Programme Play ends
Press ▷ to play from the beginning of the programme again. The programme remains even if you stop play.

Notes
- When tracks which are not numerically consecutive on the disc are programmed consecutively (i.e. 1, 3, 5, etc.), the actual playing time may become longer than the total playing time appeared in the display.
- If you turn off the player, disconnect the mains lead, or press ⏏, the programme will be erased.

Checking the contents of the programme

Before you start playing or while the player is playing, press CHECK.
Each time you press the button, in programmed order, the track number and the total programme time appear in the display. When you press CHECK while the player is playing, the track number appears from the next track numbers of the current playing track number.

Changing the contents of the programme

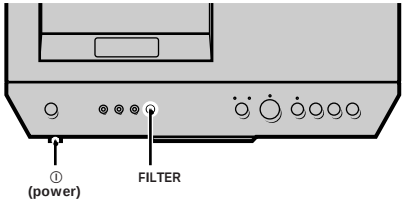
You can change the contents of the programme in stop mode.

To	Do the following:
Erase a track	**1** Press CHECK repeatedly until the track number you want to erase appears. **2** Press CLEAR.
Erase from the last track in the programme	Press CLEAR. Each time you press the button, the last track of the programme is erased.
Add a track to the end in the programme	Press ⏮/⏭ to select the track you want to add, then press PROGRAM. When using the remote, press the number button of the track to be added.
Erase all tracks	Press CLEAR repeatedly until "All Clear" appears.

Listening to a CD Using a Filter (Digital Filter Function)

This player is equipped with a variable coefficient (V.C.*) digital filter. By selecting one of five types of filters ("STD," "1," "2," "3," and "4"), you can adjust the sound to match your listening environment and the music source.
*V.C. is a trademark of Variable Coefficient. For details, see "What is a variable coefficient (V.C.) digital filter?"

Note
Digital filters are effective only when you play a conventional CD. You cannot select the digital filter when you play a Super Audio CD.



Press FILTER repeatedly until you locate the filter you want.
If you press FILTER to change the type of filters during play, "D-Fil Setting" appears in the display and the sound will be interrupted momentarily.

Characteristics of each digital filter

The contents and characteristics of the five digital filters are as follows:

STD: Standard (sharp roll-off)
Provides a wide frequency range and spatial feeling, as it holds the most information among the five filters.
Suitable for playback of classical music.

1 : Clear (slow roll-off)
Provides smooth and powerful sound with clear image position.
Suitable for playback of jazz band performances and jazz vocals.

2: Plain (slow roll-off)
Provides fresh and energetic sound with rich vocal expression.
Suitable for playback of vocal performances.

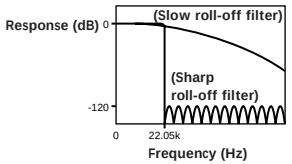
3: Fine (slow roll-off)
Provides well-balanced natural sound, with a large scale feel and rich reverberation.
Suitable for listening to any kind of music when you are relaxed.

4: Silky (slow roll-off)
Provides a wide scale feel with associated subtleties.
Suitable for light classical music, especially strings.

What is a variable coefficient (V.C.) digital filter?

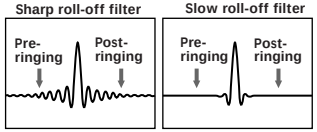
CD players use digital filters to eliminate the noise generated during sampling. You can change the tone of your music by changing the cutoff characteristics of the digital filter.

Sharp roll-off and slow roll-off
Digital filters can be roughly classified into sharp roll-off types and slow roll-off types, according to their cutoff characteristics.



Comparison of cutoff characteristics for sharp roll-off filter and slow roll-off filter

Sharp roll-off filters quickly cut off noise over 22.05 kHz generated during sampling. This is a superior way of completely reproducing signals below 20 kHz and is the basic principle behind digital audio.
On the other hand, slow roll-off filters cut off noise generated during sampling, and are able to hold pre-ringing and post-ringing (a kind of sound smearing) in the impulse response signal to a minimum.



Comparison of impulse response for sharp roll-off filter and slow roll-off filter

Note
The Digital Filter function primarily changes characteristics outside the audible frequency. They cannot affect changes within the audible frequency such as those provided by the tone controls of the amplifier. Therefore, with certain combinations of hardware and software, there may be no noticeable effect after switching the filter.

SECTION 2
DISASSEMBLY-1

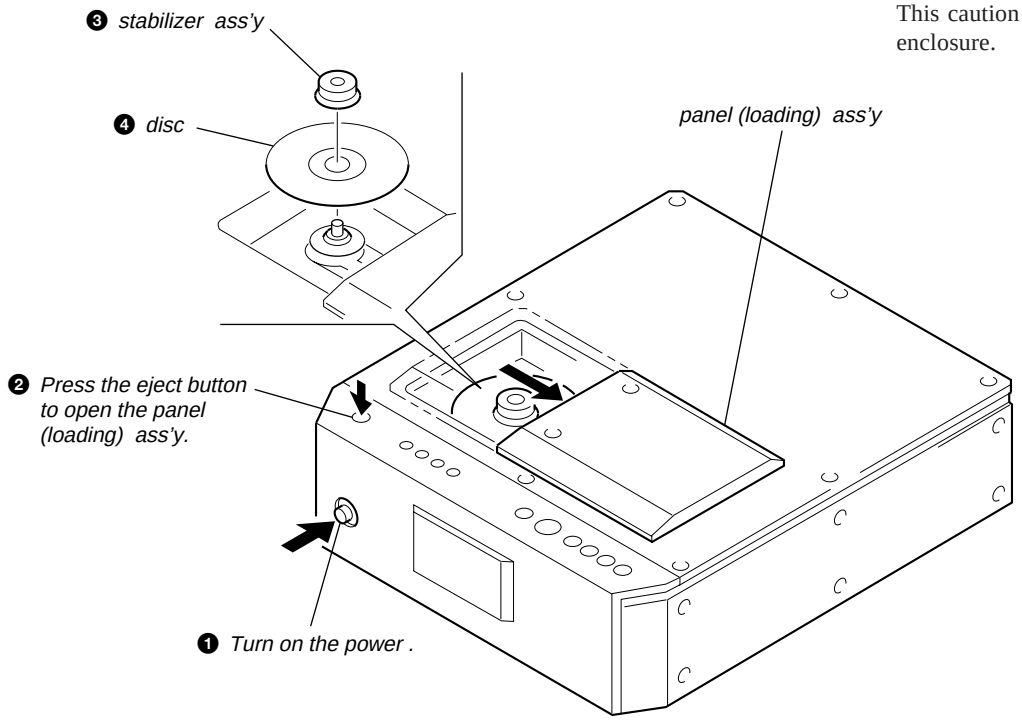
Note: When the panel (loading) ass'y of this set is closed, you cannot confirm whether the disc and stabilizer ass'y are loaded inside or not.
Accordingly, perform "Removal of Loading ass'y at Power ON/OFF" (see pages 12 and 13) to remove the disc and stabilizer ass'y, if loaded.

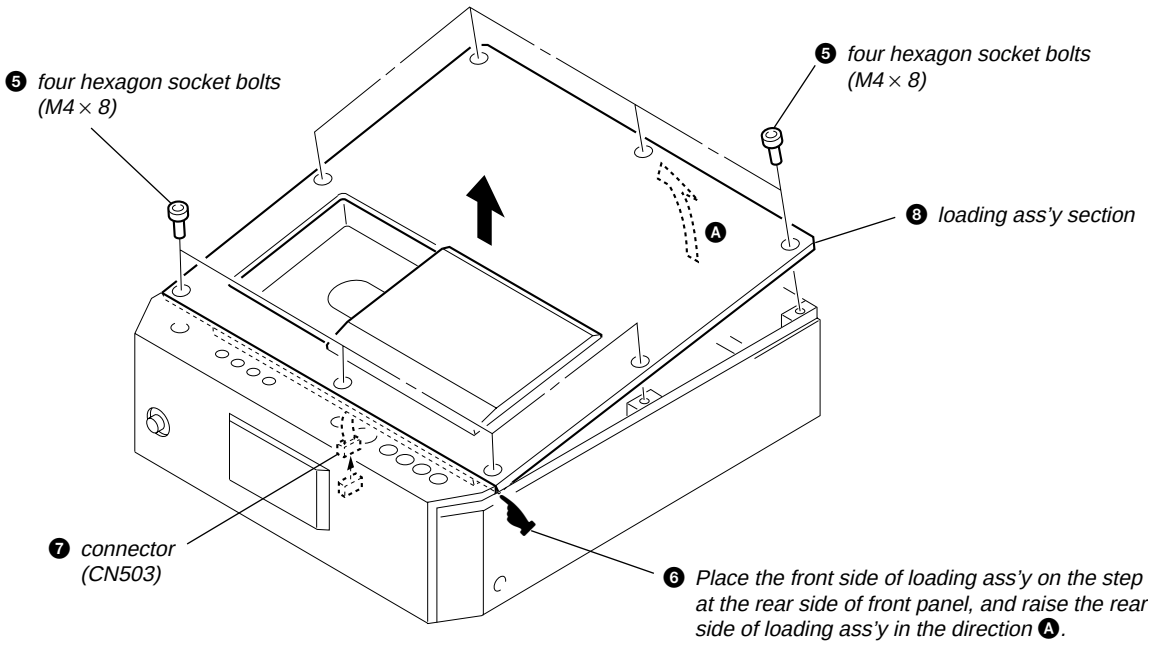
Note: Follow the disassembly procedure in the numerical order given.

U.S.A and Canadian Models only

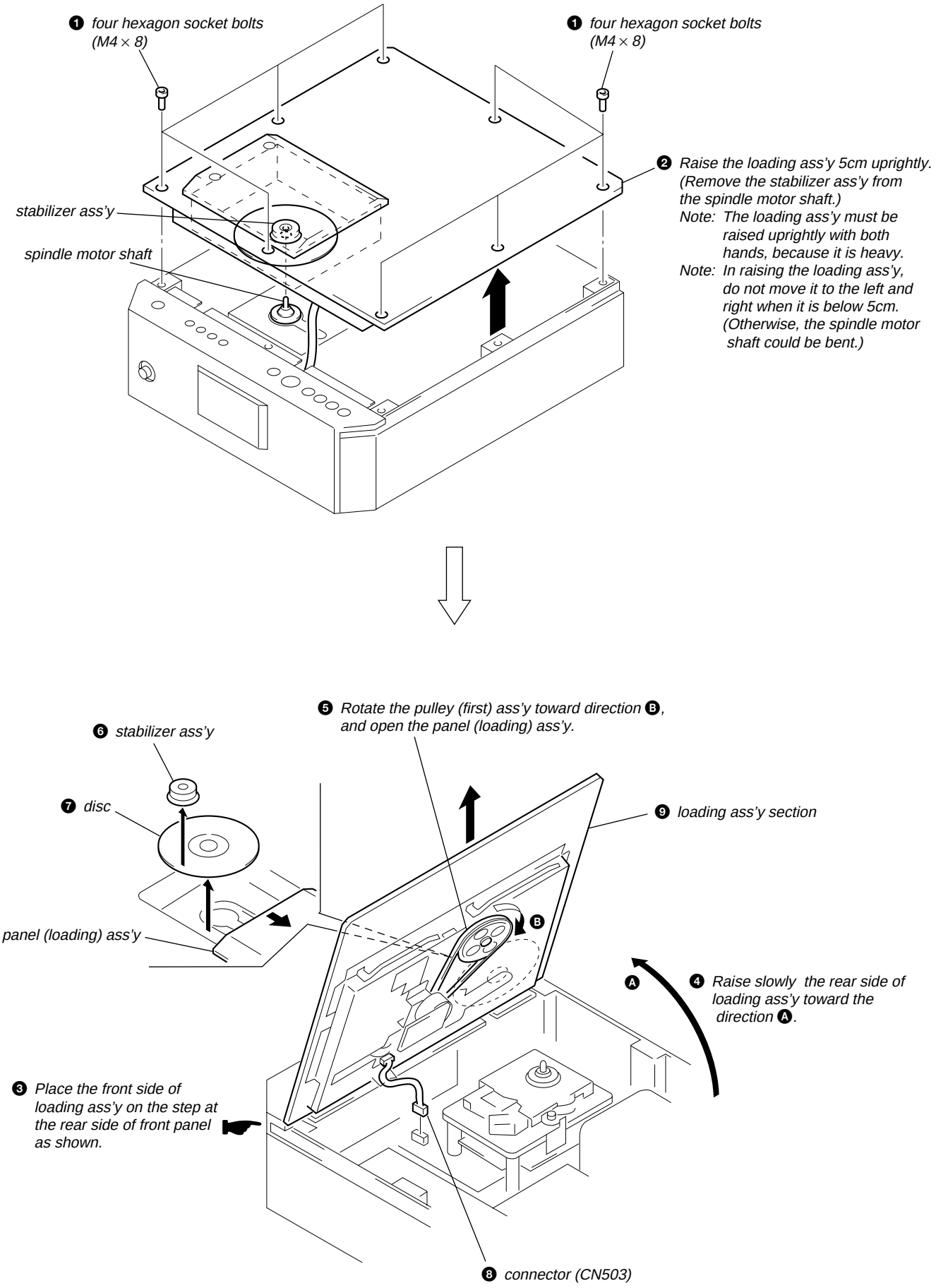
This caution label is located on the rear enclosure.

REMOVAL OF LOADING ASS'Y AT POWER ON.




❺ four hexagon socket bolts (M4 × 8)
❺ four hexagon socket bolts (M4 × 8)
❽ loading ass'y section
Ⓐ
❼ connector (CN503)
❻ Place the front side of loading ass'y on the step at the rear side of front panel, and raise the rear side of loading ass'y in the direction Ⓐ.

REMOVAL OF LOADING ASS'Y AT POWER OFF.


❶ four hexagon socket bolts (M4 × 8)
❶ four hexagon socket bolts (M4 × 8)
stabilizer ass'y
spindle motor shaft
❷ Raise the loading ass'y 5cm uprightly. (Remove the stabilizer ass'y from the spindle motor shaft.)
Note: The loading ass'y must be raised uprightly with both hands, because it is heavy.
Note: In raising the loading ass'y, do not move it to the left and right when it is below 5cm. (Otherwise, the spindle motor shaft could be bent.)
❺ Rotate the pulley (first) ass'y toward direction Ⓑ, and open the panel (loading) ass'y.
❻ stabilizer ass'y
❼ disc
❾ loading ass'y section
panel (loading) ass'y
Ⓑ
Ⓐ
❹ Raise slowly the rear side of loading ass'y toward the direction Ⓐ.
❸ Place the front side of loading ass'y on the step at the rear side of front panel as shown.
❽ connector (CN503)

9-929-012-11

Sony Corporation
Home Audio Company

99H0560-1
Printed in Japan © 1999. 8
Published by Quality Assurance Dept.

SCD-1/777ES

SONY

US Model
Canadian Model
AEP Model

SERVICE MANUAL

For Technical service

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CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

The following caution label is located inside of the unit.

For the customers in Canada

CAUTION

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

For the customers in Europe

This appliance is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

The following caution label is located inside the unit.

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLING.
VORSICHT : UNSICHTBARE LASERSTRAHLUNG. WENN ABDECKUNG GEÖFFNET UND SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.
VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING : OSYNLING LASERSTRÅLING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.
ADVERSEL : USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VIGYAZAT! : A BURKOLAT NYITÁSAKOR LÁTHATATLAN LÉZERSUGÁRVESZÉLY! KERÜLJE A BESUGÁRZÁST!

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

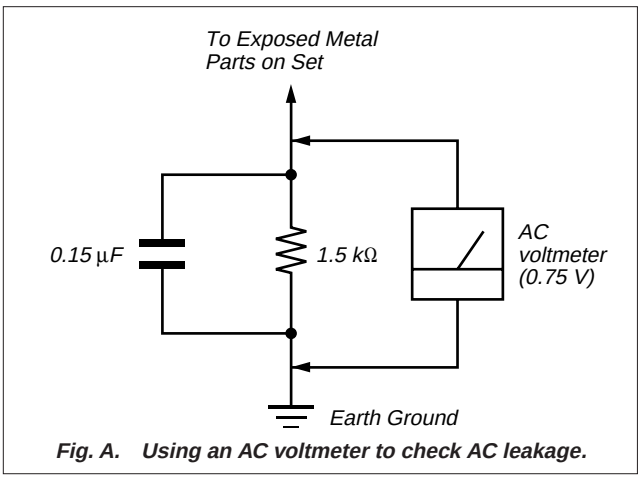


Fig. A. Using an AC voltmeter to check AC leakage.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 3
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

MODEL IDENTIFICATION

– Back Panel –

Model	Part No.
SCD-1: US, Canadian	4-215-784-1
SCD-1: AEP	4-215-784-2
SCD-777ES: AEP	4-221-854-0
SCD-777ES: US, Canadian	4-221-854-1

CHECKING METHOD OF MICROCOMPUTER ROM VERSION

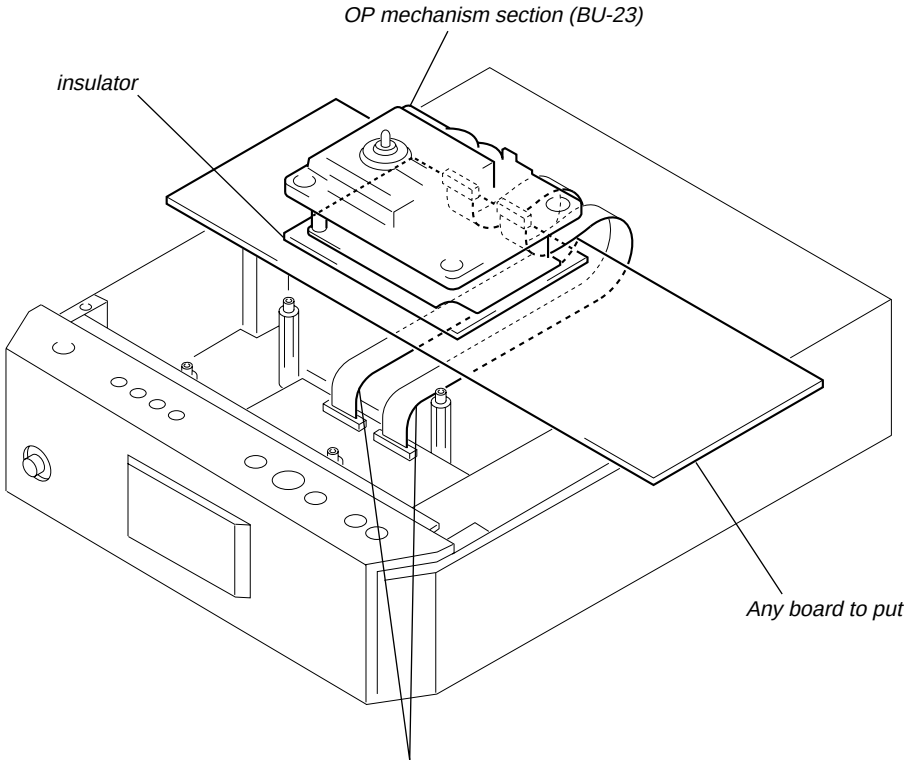
1. Set the CD1/CD2 switch on the remote commander to CD1.
2. With the power turned on, press the CHECK button on the remote commander while pressing the TEXT button on the set.
3. 15-digit numeric value will be displayed, and the top 4 digits (left side) of the numeric value imply the microcomputer ROM version.
   Example: If "200006100FFFF3C" is displayed, the ROM version is 2.000.
4. To cancel the ROM version check mode, press the CHECK button on the remote commander while pressing the TEXT button on the set.

DISPLAY OF TOC ERROR

Display	Contents
TOC ERROR ****	Illegal SACD disc (pirate edition)
TOC ERROR *	Not SACD (DVD disc etc.)

SERVICE POSITION

In checking the BU section, prepare two new jigs (extension cable J-2501-164-A: 1.00 mm 26 cores).



connect two jigs (extension cable J-2501-164-A) to the RF board (CN001, 002) and Main board (CN501, 502).

REPLACING OPTICAL PICK-UP

Handling

1) A red laser diode for Super Audio CD Player requires more attention to static electricity than general infrared laser diodes for CD.
   Because its durability to static electricity is far weaker than that of infrared laser diodes, always use an earth band when handling the optical pick-up block as service parts.

2) As for the flexible board KHS-180A (RP) packed as service parts, the short lands have been soldered to protect from static electricity. Accordingly, remove solders when replacing optical pick-up. (See Fig. 1)

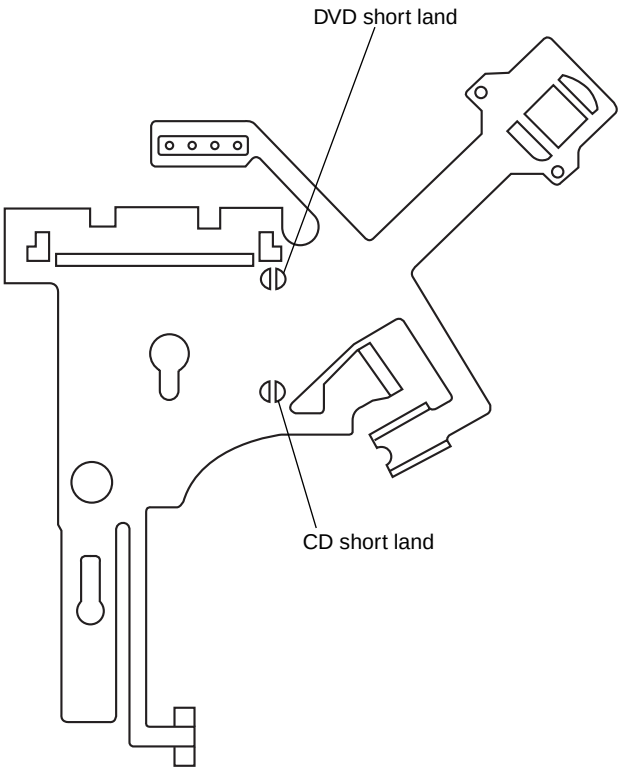
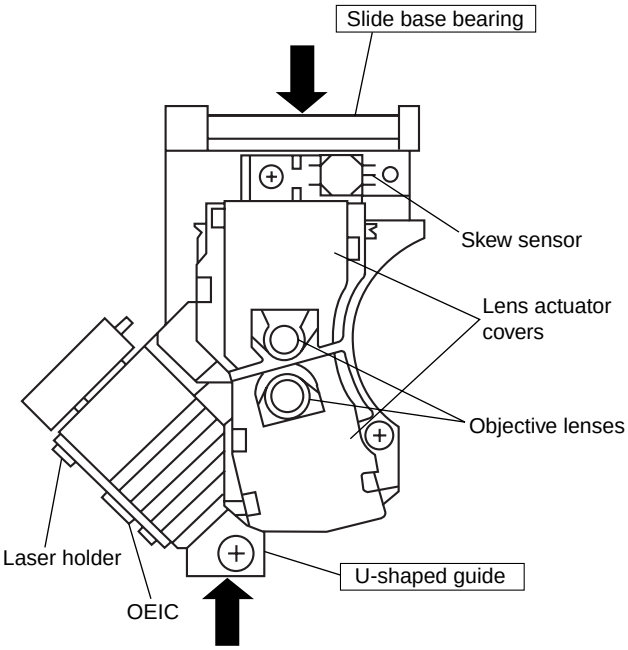


Fig. 1 Flexible board

3) In handling the KHS-180A (RP), do not touch inhibited parts shown in Fig. 2, but grip the slide base bearing and U-shaped guide.



Touch inhibited parts
- *Objective lens*
- *Skew sensor*
- *Laser holder*
- *Laser coupler*
- *Flexible board*
- *OEIC*
- *Lens actuator covers*

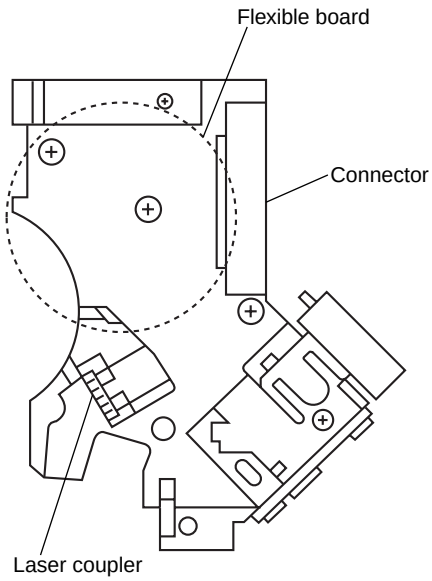
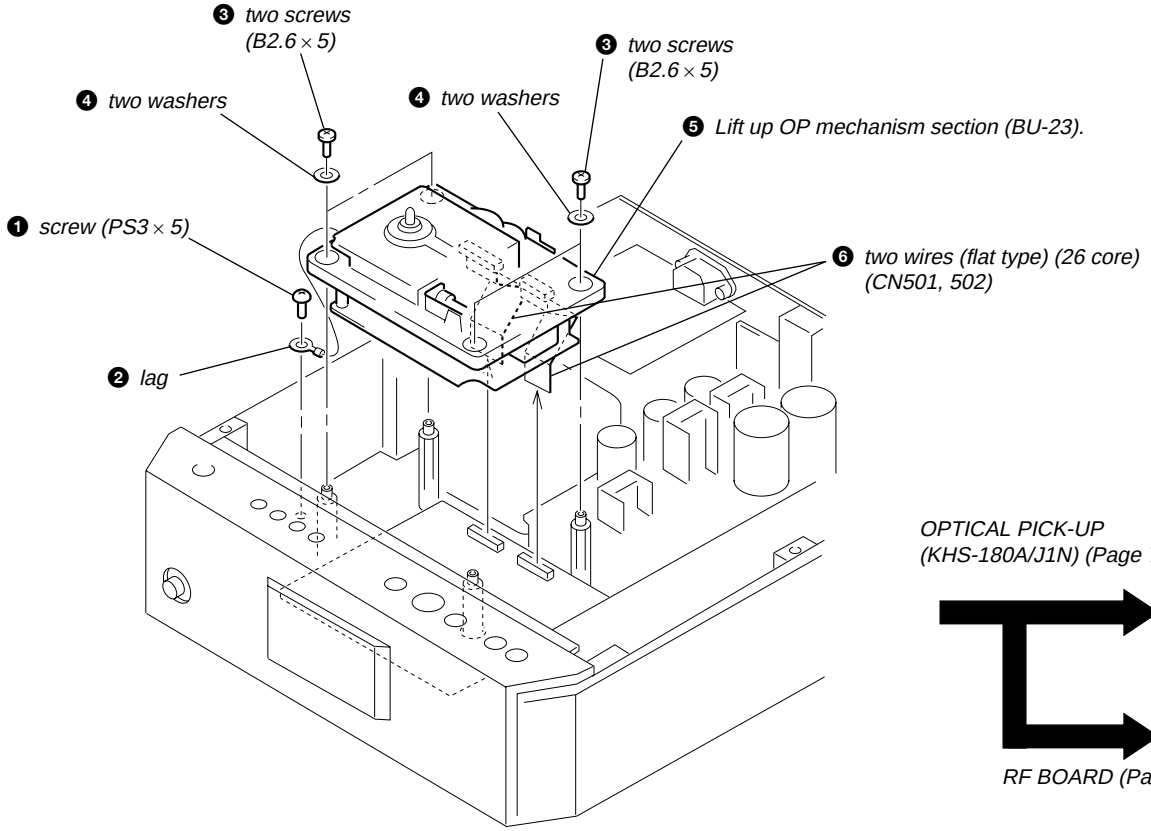


Fig. 2 KHS-180A (RP)

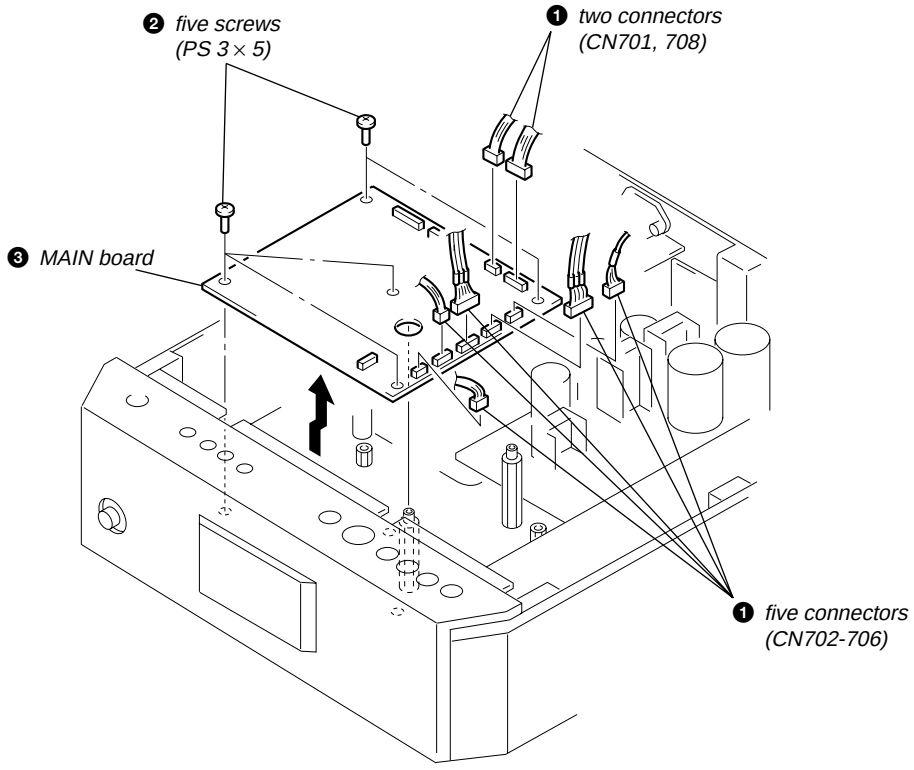
SECTION 4
DISASSEMBLY-2

Note: Follow the disassembly procedure in the numerical order given.

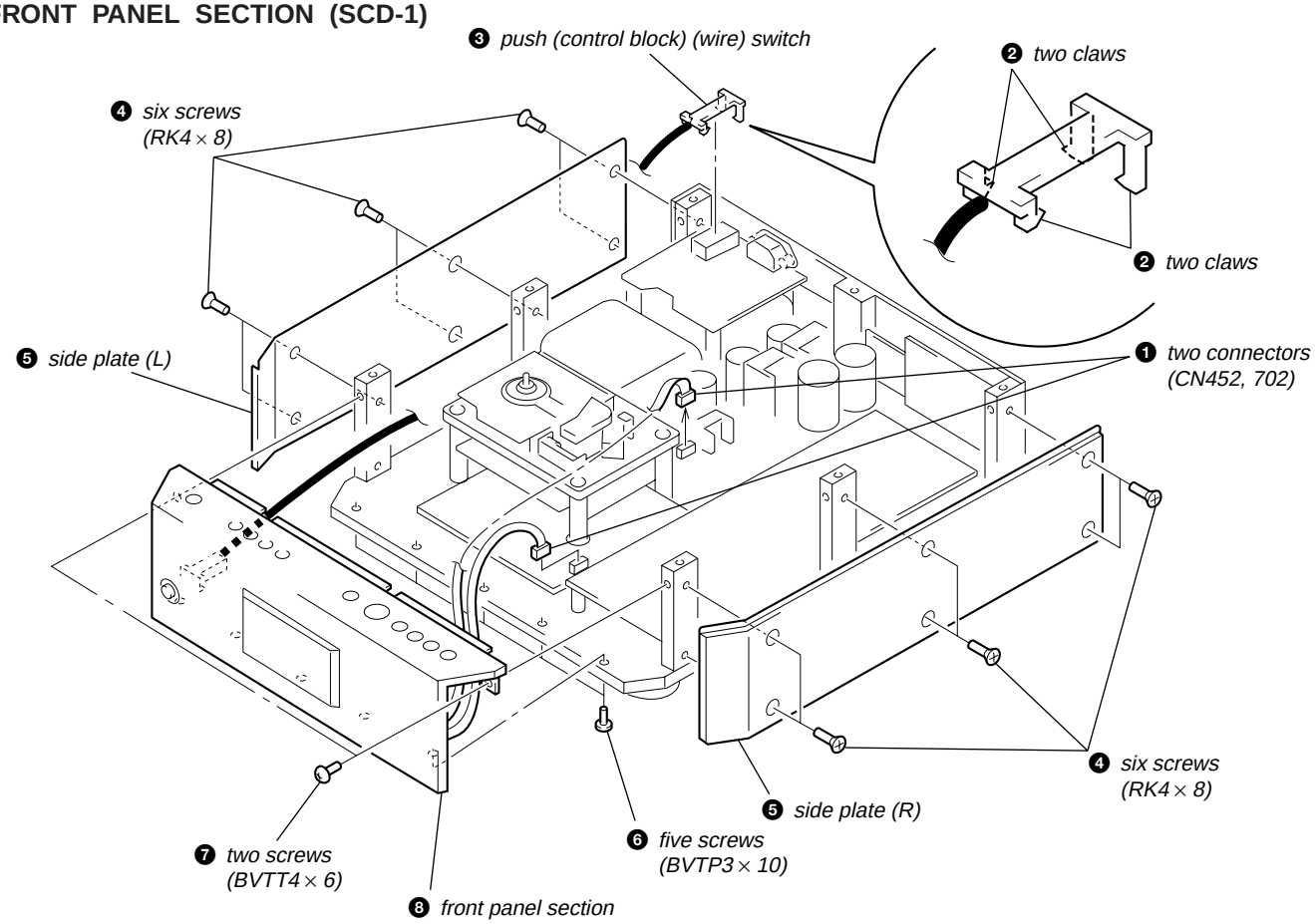
OP MECHANISM SECTION (BU-23)


❸ two screws (B2.6 × 5)
❸ two screws (B2.6 × 5)
❹ two washers
❹ two washers
❺ Lift up OP mechanism section (BU-23).
❶ screw (PS3 × 5)
❻ two wires (flat type) (26 core) (CN501, 502)
❷ lag
OPTICAL PICK-UP (KHS-180A/J1N) (Page 7)
RF BOARD (Page 7)

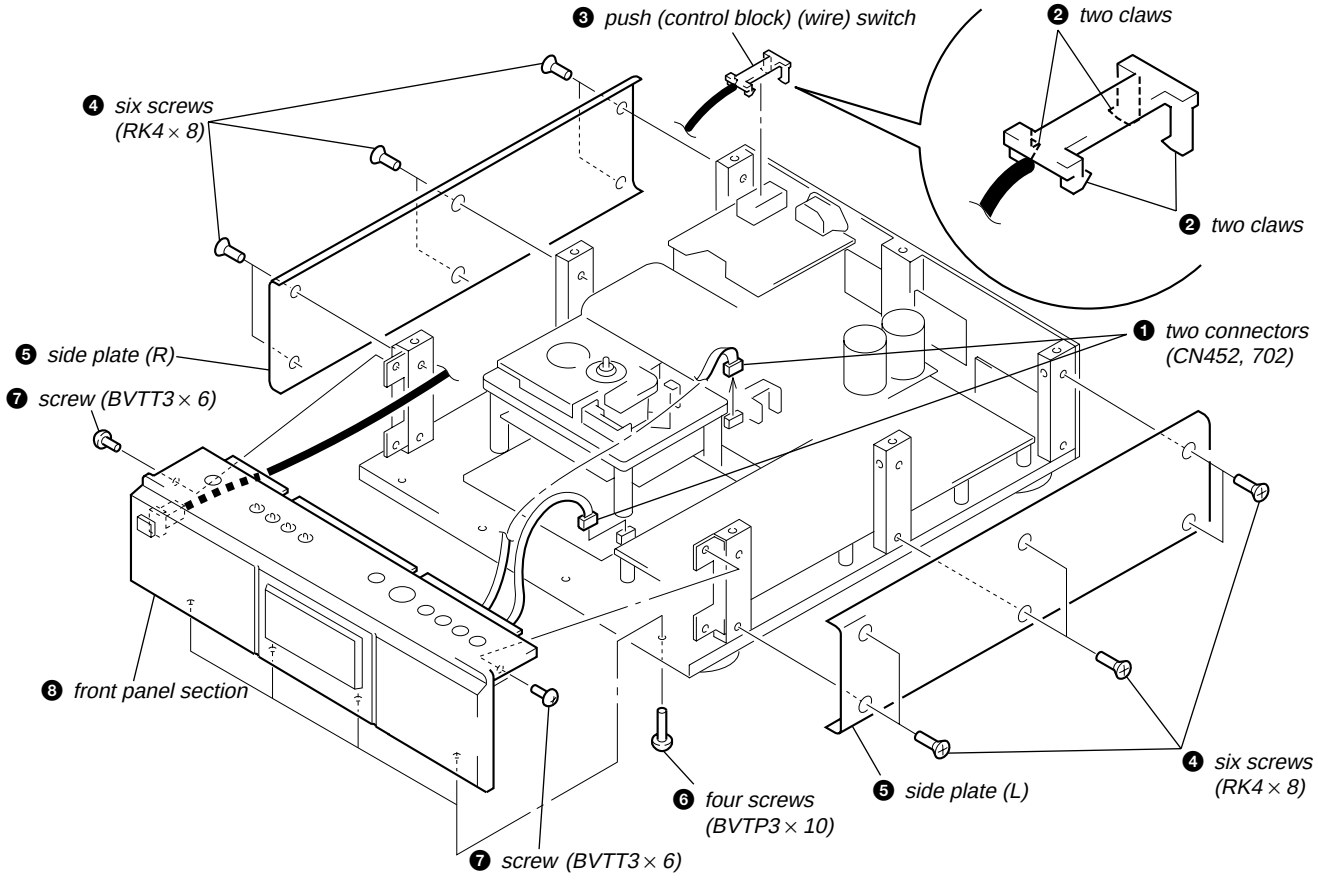
MAIN BOARD



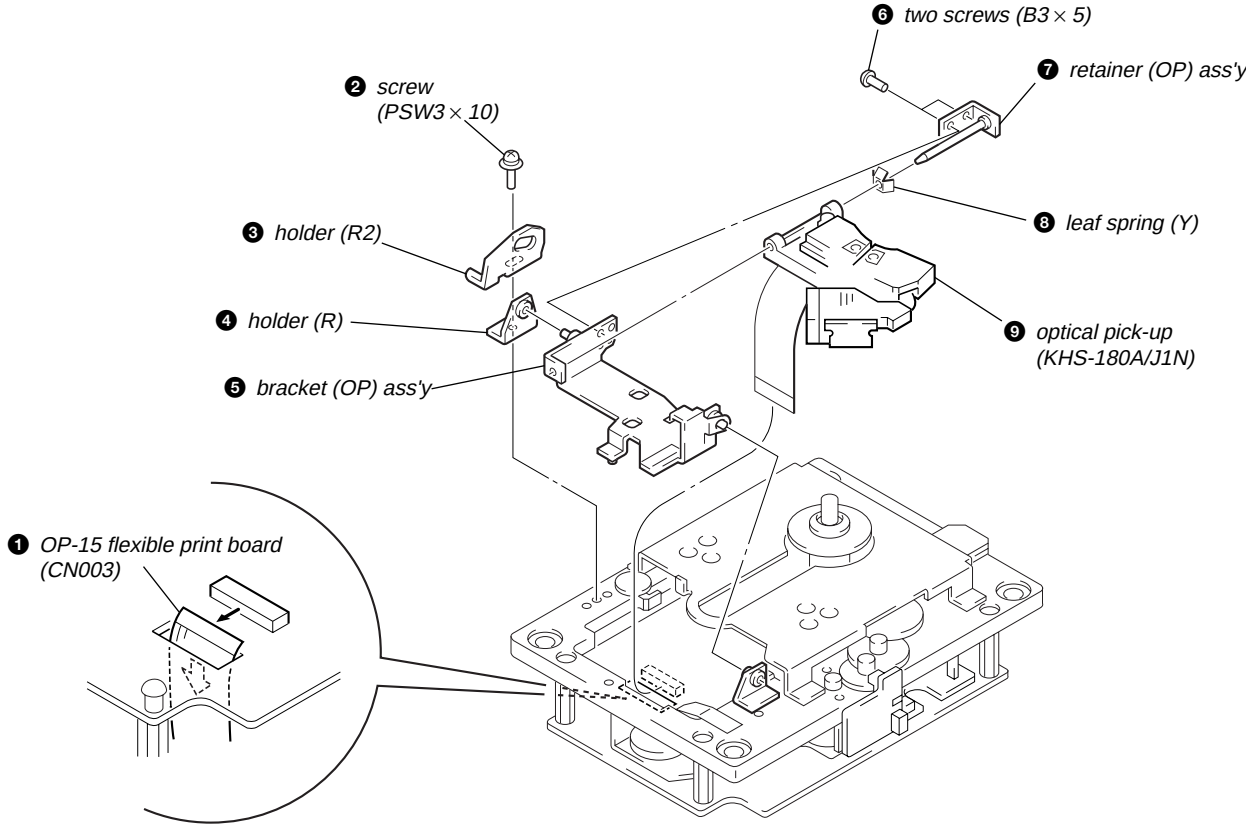
FRONT PANEL SECTION (SCD-1)


❸ push (control block) (wire) switch
❷ two claws
❹ six screws (RK4 × 8)
❷ two claws
❺ side plate (L)
❶ two connectors (CN452, 702)
❹ six screws (RK4 × 8)
❺ side plate (R)
❻ five screws (BVTP3 × 10)
❼ two screws (BVTT4 × 6)
❽ front panel section

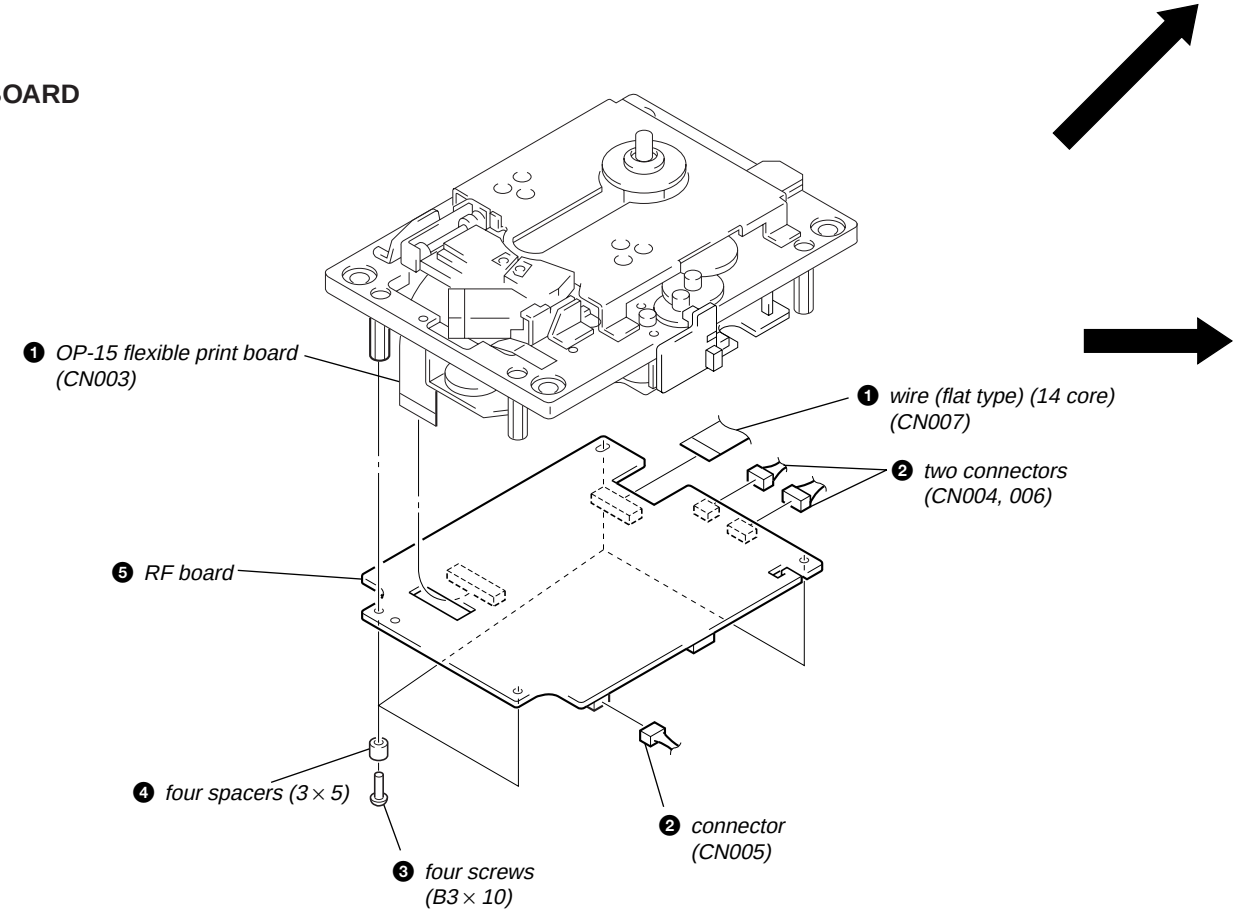
FRONT PANEL SECTION (SCD-777ES)


❸ push (control block) (wire) switch
❷ two claws
❹ six screws (RK4 × 8)
❷ two claws
❺ side plate (R)
❶ two connectors (CN452, 702)
❼ screw (BVTT3 × 6)
❽ front panel section
❹ six screws (RK4 × 8)
❺ side plate (L)
❻ four screws (BVTP3 × 10)
❼ screw (BVTT3 × 6)

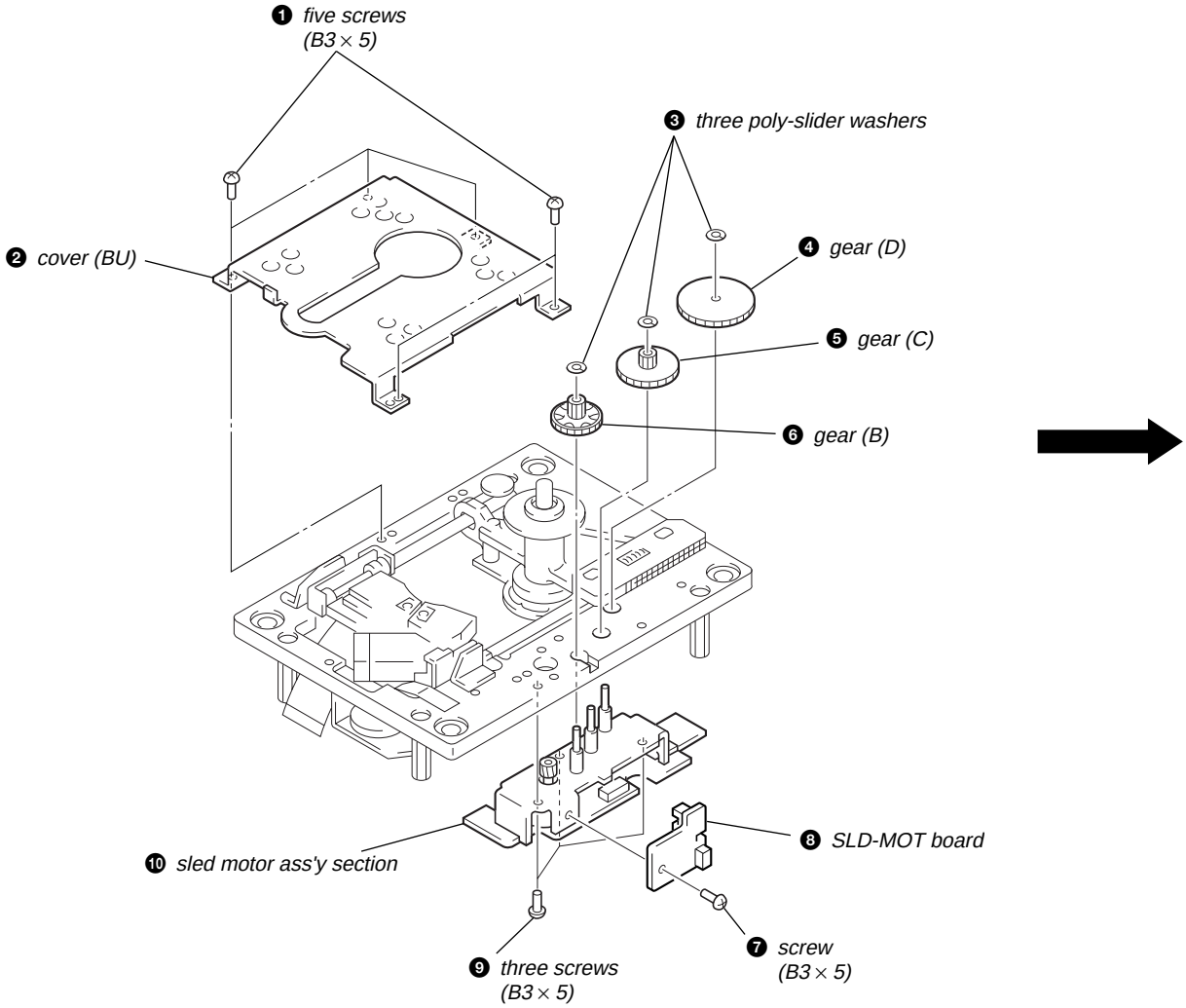
OPTICAL PICK-UP (KHS-180A/J1N)


❻ two screws (B3 × 5)
❼ retainer (OP) ass'y
❷ screw (PSW3 × 10)
❽ leaf spring (Y)
❸ holder (R2)
❹ holder (R)
❾ optical pick-up (KHS-180A/J1N)
❺ bracket (OP) ass'y
❶ OP-15 flexible print board (CN003)

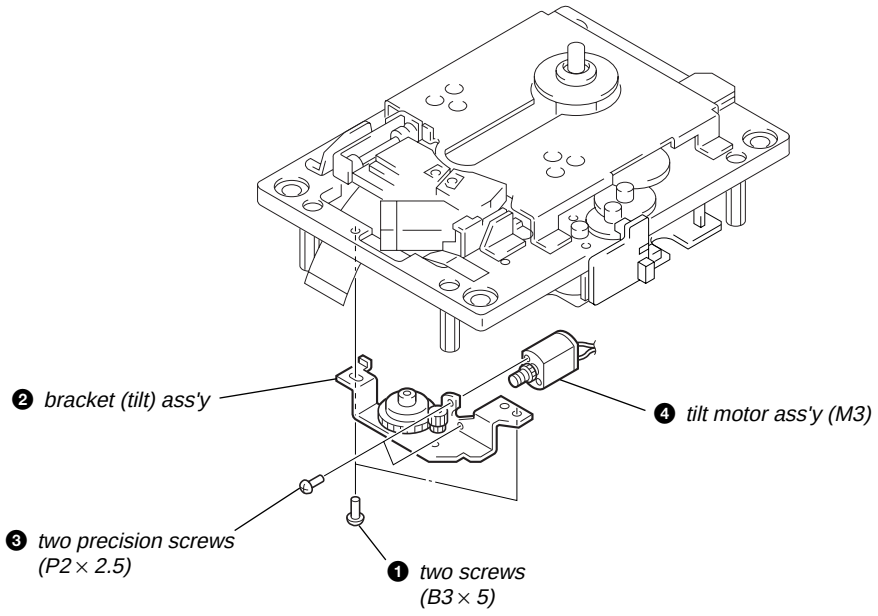
RF BOARD


❶ OP-15 flexible print board (CN003)
❶ wire (flat type) (14 core) (CN007)
❷ two connectors (CN004, 006)
❺ RF board
❹ four spacers (3 × 5)
❷ connector (CN005)
❸ four screws (B3 × 10)

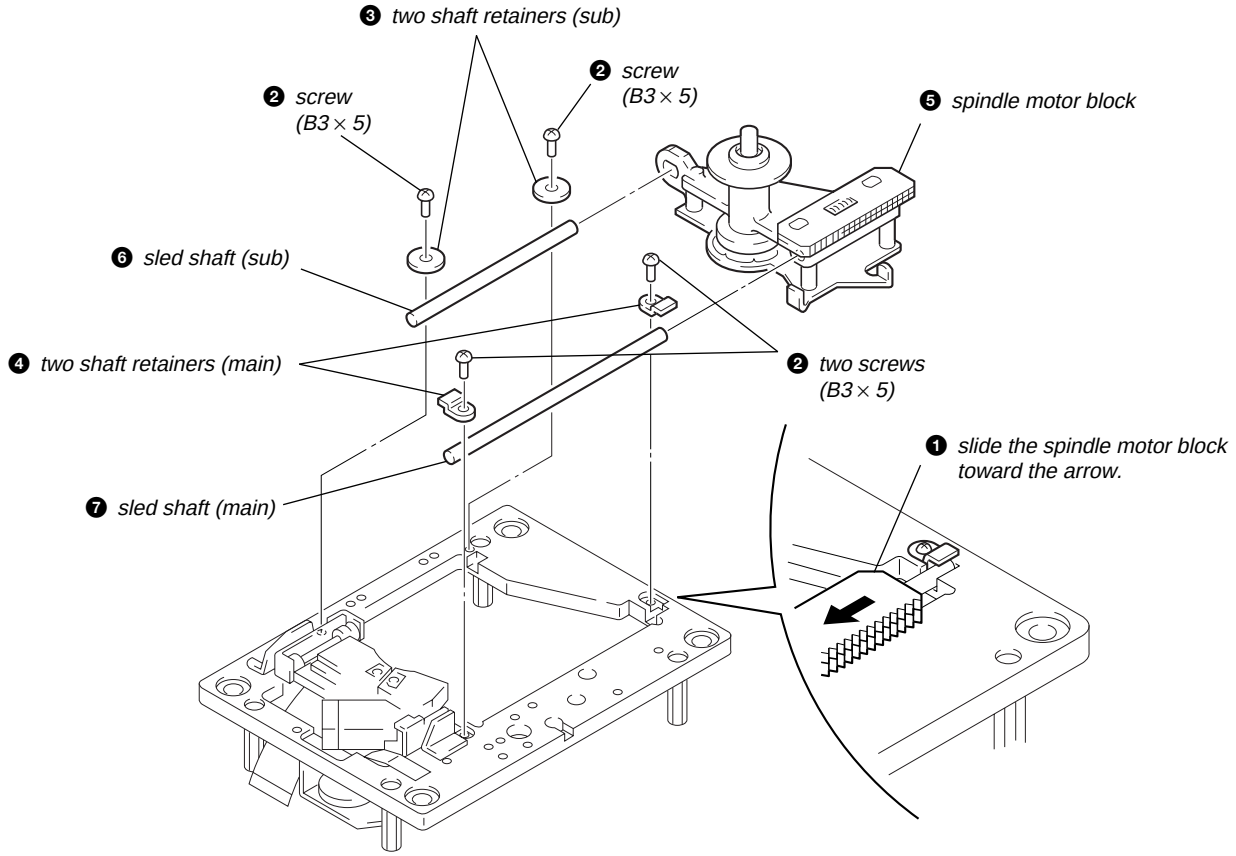
SLED MOTOR ASS'Y SECTION


❶ five screws (B3 × 5)
❸ three poly-slider washers
❷ cover (BU)
❹ gear (D)
❺ gear (C)
❻ gear (B)
❽ SLD-MOT board
❿ sled motor ass'y section
❼ screw (B3 × 5)
❾ three screws (B3 × 5)

TILT MOTOR ASS'Y (M3)



SPINDLE MOTOR BLOCK


❸ two shaft retainers (sub)
❷ screw (B3 × 5)
❷ screw (B3 × 5)
❺ spindle motor block
❻ sled shaft (sub)
❹ two shaft retainers (main)
❷ two screws (B3 × 5)
❶ slide the spindle motor block toward the arrow.
❼ sled shaft (main)

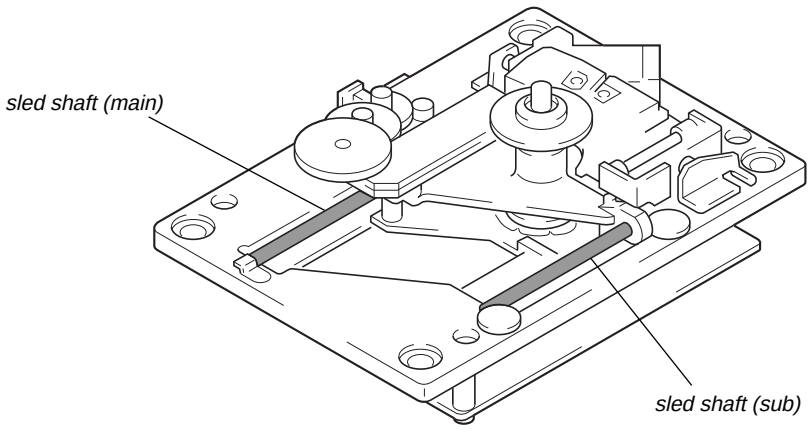
APPLYING OIL AT REPLACEMENT OF MOTOR (SPINDLE) (M7)

When replacing the motor (spindle) (M7), apply a drop of oil to the sled shaft (sub) and the sled shaft (main) respectively.

Part Name	Part No
FLOIL (946P)	*7-662-001-37*

Notes:

- *Do not attach oil to other than specified parts.*
- *Do not touch the lens and laser diode during work.*



SECTION 5
TEST MODE

5-1. FLUORESCENT INDICATOR TUBE MODE

Note: Set the CD1/CD2 switch on the remote commander to CD1.

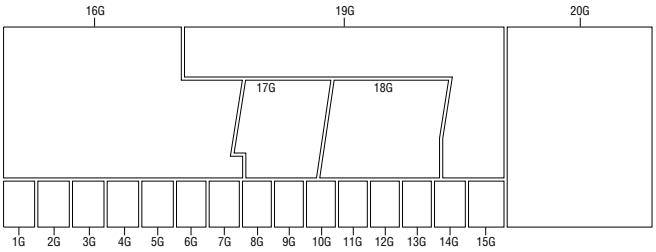
Procedure:

1. Press the ⏻ button while shorting the BP (TEST MODE) on the DISPLAY board with tweezers, etc. and turn on the power, so that the following operation will be executed automatically.

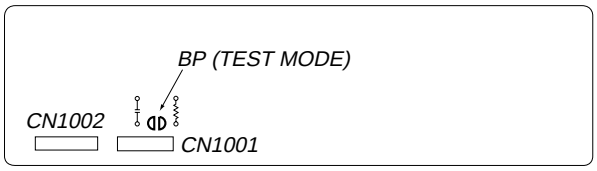
(1) All segments from 1G to 19G light up in order, starting from 1G.
(2) Vertical one line (total 7) of all grids from 1G to 15G lights up in order, starting from the left.
(3) Horizontal one line (total 5) of all grids from 1G to 15G lights up in order, starting from the top.
(4) Grids from 1G to 15G go off, and all segments from 16G to 19G light up.

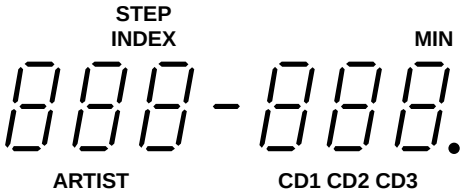
2. With the set in the 1-(4) status, pressing any key on the remote commander changes the display as shown below, and activates the key check standby mode.

Geid Assignment



– DISPLAY Board (Conductor Side) –





3. When a key on the front panel is pressed, the corresponding segment and LED light up. (See table below)

key on set	Key Attribute	Lighting segment (in 19 grids)	Lightning LED
⏏	EJECT	20 bit	–
TIME	TIME	24 bit	–
TEXT	TEXT	_|____ (DIGITAL FILTER)	–
DIGITAL OUT	DIGITAL OUT	DIGITAL OUTPUT	–
FILTER	FILTER	_|____ (DIGITAL OUTPUT)	–
SACD/CD	SACD/CD	NORM	–
▷	PLAY	WIDE	PLAY LED
⏸	PAUSE	STD1234	PAUSE LED
■	STOP	DIGITAL FILTER	–
⏮	AMS-BACK	16 bit	CD LED
⏭	AMS-FORWARD	OFF	SACD LED

4. If "!%%TEST-END!!%%" is displayed after the keys listed above were all pressed, the key check terminated successfully.
Note: As this test does not check the LEDs, check them visually.
5. Press the ⏻ button to turn the power off, and disconnect the plug from the socket.

5-2. ADJUSTMENT-1 MODE

This mode is a special mode used to perform overall adjustment, optical pick-up height adjustment, and service check.

Note:

1. Wrong setting method can cause a trouble.
2. Never operate the set with the loading panel mounted, which otherwise causes a trouble.

Setting Method:

1. With the power turned off, press the ⏻ button while pressing the DIGITAL OUT button and ⏮ button.
2. Display of "bbb" implies that the set is now in the Adjustment-1 Mode.

Resetting Method:

Press the ⏻ button to turn the power off, and disconnect the plug from the socket.

5-3. ADJUSTMENT-2 MODE

This mode is a special mode used to perform CLV jitter check and usually movement check.

Note:

1. Wrong setting method can cause a trouble.
2. Never operate the set with the loading panel mounted, which otherwise causes a trouble.

Setting Method:

1. With the power turned off, press the ⏻ button while pressing the TIME button and ⏭ button.
2. Display of "# OPEN #" implies that the set is now in the Adjustment-2 Mode.

Resetting Method:

Press the ⏻ button to turn the power off, and disconnect the plug from the socket.

Adjustment item

Adjustment-1 Mode	Traverse check, S curve check, RF level check, optical pick-up height adjustment, and see contents of Adjustment-1 Mode list.
Adjustment-2 Mode	CLV jitter check and usually movemant check

Adjustment-1 Mode List

Note: Set the CD1/CD2 switch on the remote commander to CD1.

Codes	Contents	Remarks	Disc	
01	LD ON/OFF		CD, SL, DL	
02	Spindle ON/OFF		CD, SL, DL	
03	Forcus Search		CD, SL, DL	
04	Forcus Servo ON/OFF		CD, SL, DL	
05	Track Servo ON/OFF		CD, SL, DL	
06	CLV ON		CD, SL, DL	
07	Sled Servo ON/OFF		CD, SL, DL	
22	Tilt Servo ON/OFF		CD, SL, DL	
23	Tilt Bias	Up	CD, SL, DL	
24	Tilt Bias	Down	CD, SL, DL	
30	Disc Check		CD, SL, DL	*1
60	Overall Adjustment	5: Thresholds check 9: No thresholds check (Go) 0: Cancel	CD, SL, DL	
61	Result Display	1: Proceed 2: Return	CD, SL, DL	
62	Adj. Value Clear	9: Go 0: Cancel	CD, SL, DL	
PLAY	PLAY		CD, SL, DL	
PAUSE	PAUSE		CD, SL, DL	
STOP	STOP		CD, SL, DL	
NEXT	NEXT		CD, SL, DL	
PREV	PREV		CD, SL, DL	
FILTER	Focus Search/PLAY	SACD select (SACD/CD key)	SL	
		CD select (SACD/CD key)	CD	

Note:

1. Selection of an adjustment item where no disc is present could damage the optical pick-up.
2. Do not use other than above listed codes.

*1: Disc check list

Display	Result of Disc Check
Discchk DO SL	No disc
Discchk D1 SL	SL
Discchk D2 CD	CD
Discchk D3 CD	Hybrid CD layer
Discchk D3 HD	Hybrid HD layer
Discchk D4 D0	DL L0 layer
Discchk D4 D1	DL L1 layer

SECTION 6
ELECTRICAL ADJUSTMENTS

Note on Adjustment

1. When the following parts were replaced, adjust and check the items marked with ○ in the given order.

Parts / Adjustment & check	Optical pick-up	IC on RF or MAIN board	Spindle motor (M7)
1. Optical Pick-up Height Adjustment	○	×	○
2. Overall Adjustment	○	○	×
3. Traverse Check	○	×	×
4. S Curve Check	○	×	×
5. RF Level Check	○	×	×
6. CLV Jitter Check	×	×	○

2. Adjustment jigs
   The following jigs are exclusively used for electrical adjustment and check of this set. Do not use them for other applications.

(1) Disc

Model	Type*1	Category	Applications
SATD-S1	SL	8cm disc	Optical pic-kup H adj.
SATD-S2	SL	Reference disc	Overall adj. and check
SATD-S3	DL	Reference disc	Overall adj. and check
SATD-S4	SL	Reference disc	Audio characteristic check
TCD-784	CD	Reference disc	Overall adj. and check

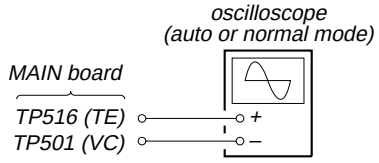
*1 SL: Single Layer
DL: Dual Layer

(2) Remote commander: Assessory for set or RM-D950 (Part No. 1-473-944-1)
(3) Extension cable (Part No. J-2501-164-A) 2 pcs.

3. In making adjustment and check, set the CD1/CD2 switch on the remote commander to CD1.
4. The impedance of oscilloscope should be more than 10M .

Traverse Check

Connection:

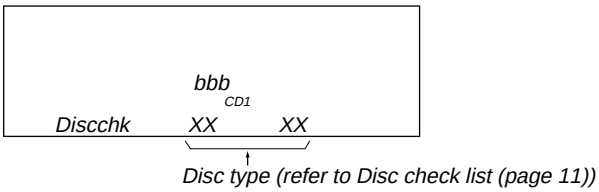


Procedure:

1. Connect an oscilloscope to the TP516(TE) and TP501(VC) on the MAIN board.
2. Set the Adjustment-1 Mode. (See 5-2. Adjustment-1 Mode in SECTION 5 (page 11))
3. Set a disc (SATD-S2, SATD-S3, or TCD-784).
4. Press the [3] button and [0] button on the remote commander to make the disc type checked.

Note: If the disc check was made in the Adjustment-1 Mode, pressing another button immediately after pressing the [3] and [0] buttons on the remote commander could cause the microcomputer to run out of control, thus requiring extreme care.

5. Confirm that the disc was checked.

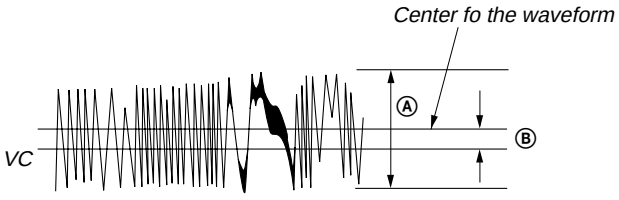


6. Press the [▷] button.
7. Press the [0] button and [7] button, and the [0] button and [5] button on the remote commander successively to turn off the tracking servo.
8. Check that the waveform on oscilloscope is within the level Ⓐ and Ⓑ specifications.
9. After checking, press the [■] button.
10. Repeat steps 3 through 9 respective discs.
11. Press the [⏻] button to turn the power off.

Specified Value:

Disc	Ⓐ	Ⓑ
SATD-S2	1.3 to 2.4 Vp-p	- 0.1 to +0.1 V
SATD-S3		
TCD-784		

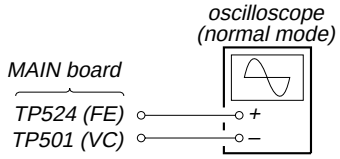
Traverse waveform



Adjustment Location : See page16.

S Curve Check

Connection:

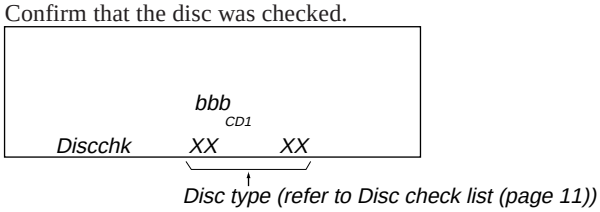


Procedure:

1. Connect an oscilloscope to the TP524(FE) and TP501(VC) on the MAIN board.
2. Set the Adjustment-1 Mode. (See 5-2. Adjustment-1 Mode in SECTION 5 (page 11))
3. Set a disc (SATD-S2 or TCD-784).
4. Press the [3] button and [0] button on the remote commander to make the disc type checked.

Note: If the disc check was made in the Adjustment-1 Mode, pressing another button immediately after pressing the [3] and [0] buttons on the remote commander could cause the microcomputer to run out of control, thus requiring extreme care.

5. Confirm that the disc was checked.

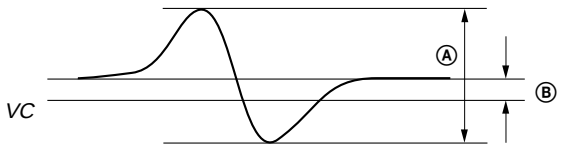


6. Press the [0] button and [1] button, the [0] button and [2] button, and the [0] button and [3] button on the remote commander successively to execute the focus search.
7. Check that the waveform on oscilloscope is within the level Ⓐ and Ⓑ specifications.
8. After checking, press the [■] button.
9. Repeat steps 3 through 8 for respective discs.
10. Press the [⏻] button to turn the power off.

Specified Value:

Disc	Ⓐ	Ⓑ
SATD-S2	1.5 to 2.3Vp-p	- 0.1 to +0.1V
TCD-784		

S curve waveform

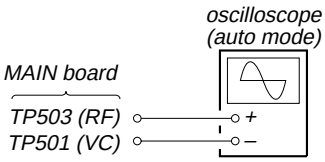


Note: For easier observation of this waveform, extend the sweep time and raise the brightness.

Adjustment Location : See page16.

RF Level Check

Connection:

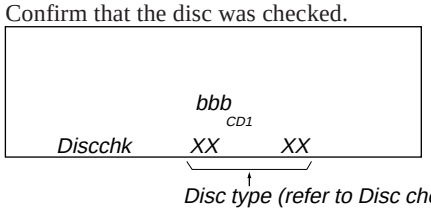


Procedure:

1. Connect an oscilloscope to the TP503(RF) and TP501(VC) on the MAIN board.
2. Set the Adjustment-1 Mode. (See 5-2. Adjustment-1 Mode in SECTION 5 (page 11))
3. Set a disc (SATD-S2 or TCD-784).
4. Press the [3] button and [0] button on the remote commander to make the disc type checked.

Note: If the disc check was made in the Adjustment-1 Mode, pressing another button immediately after pressing the [3] and [0] buttons on the remote commander could cause the microcomputer to run out of control, thus requiring extreme care.

5. Confirm that the disc was checked.

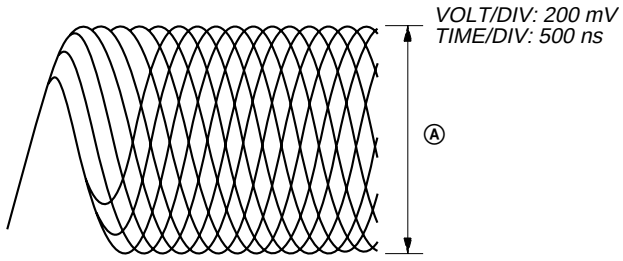


6. Press the [▷] button.
7. Check that the waveform on oscilloscope is clear, and the level and jitter of waveform satisfy the specifications.
8. After checking, press the [■] button.
9. Repeat steps 3 through 8 for respective discs.
10. Press the [⏻] button to turn the power off.

Specified Value:

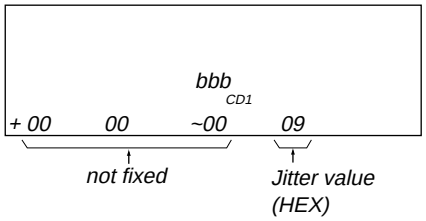
Disc	Ⓐ	Jitter (displayed value)
SATD-S2	1.25 to 1.65 Vp-p	20 (Hex) or less
TCD-784	1.3 to 1.7 Vp-p	15 (Hex) or less

RF signal waveform



Note: Clear RF waveform refers to the waveform where ◊ shapes should be distinctively observed in the center.

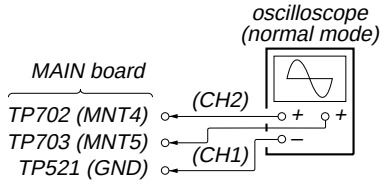
Display example:



Adjustment Location : See page16.

CLV Jitter Check

Connection:



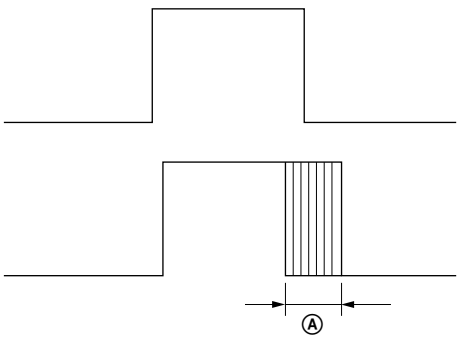
Procedure:

1. Connect an oscilloscope to the TP702(MNT4)(CH1), TP703(MNT5)(CH2) and TP521(GND) on the MAIN board.
2. Set the Adjustment-2 Mode. (See 5-3. Adjustment-2 Mode in SECTION 5 (page 11))
3. Set a disc (SATD-S2 or TCD-784).
4. Press the ▷ button.
5. Move the sled to the middle track.
   • Sled middle track
   SATD-S2:TN05
   TCD-784:TN05
6. Check that the Ⓐ value of waveform on oscilloscope satisfies the specification.
7. After checking, press the ■ button.
8. Repeat steps 3 through 7 for respective discs.
9. Press the ⏻ button to turn the power off.

Specified Value:

Disc	Ⓐ
SATD-S2	55 µsec or less
TCD-784	

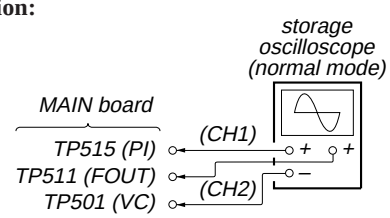
CLV jitter waveform



Adjustment Location : See page16.

Optical Pick-up Height Adjustment

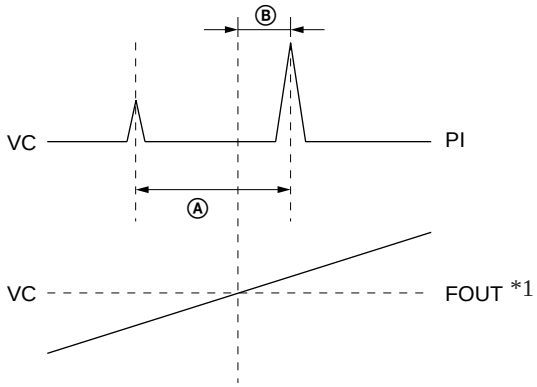
Connection:



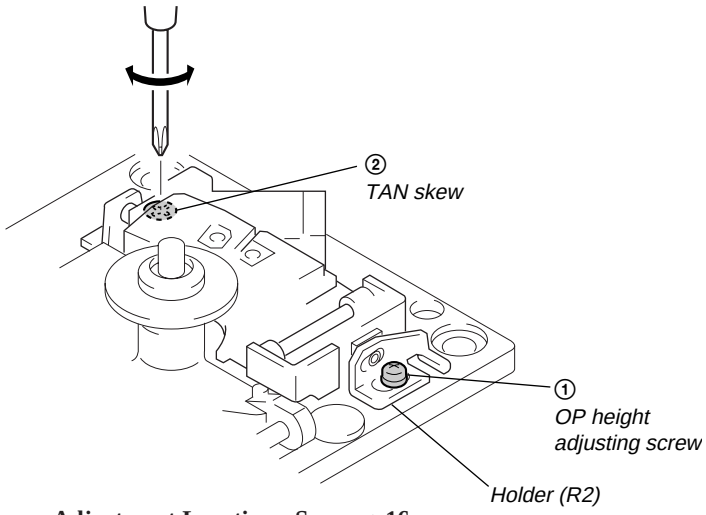
Procedure:

1. Connect an oscilloscope to the TP515(PI)(CH1), TP511(FOUT) (CH2) and TP501(VC) on the MAIN board.
2. Set the Adjustment-1 Mode. (See 5-2. Adjustment-1 Mode in SECTION 5 (page 11))
3. Set a disc (SATD-S1).
4. Press the FILTER button to set the Focus Search mode.
5. Loosen the OP height adjusting screw ①, and while shifting the Holder (R2), adjust the height so that the waveform on oscilloscope satisfies the specified value.
6. Press the FILTER button to set the Play mode.
7. Adjust the TAN skew ② so as to attain most preferable jitter value on the display.
8. Press the FILTER button to set the Focus Search mode.
9. Check that the Ⓑ value of waveform on oscilloscope satisfies the specification.
10. Repeat steps 5 through 9.
11. Lock the OP height adjusting screw ① when adjustment finished.
12. Press the ■ button.
13. Press the ⏻ button to turn the power off.

Specified Value: Ⓑ is more than 0, and less than Ⓐ/3



*1: Normal-trigger the oscilloscope using FOUT on CH2.



Adjustment Location : See page16.

Overall Adjustment

Procedure:

1. Set the Adjustment-1 Mode. (See 5-2. Adjustment-1 Mode in SECTION 5 (page 11))
2. Press the [6] button and [2] button, then the [9] button on the remote commander (to initialize data).
3. Set a disc (TCD-784).
4. Press the [6] button and [0] button, then the [5] button on the remote commander. (Adjustment will take about 2 minutes.)
5. Remove the disc when "CD END" is displayed.
6. Set a disc (SATD-S2).
7. Press the [6] button and [0] button, then the [5] button on the remote commander. (Adjustment will take about 1 minute 30 seconds.)
8. Remove the disc when "SL END" is displayed.
9. Set a disc (SATD-S3).
10. Press the [6] button and [0] button, then the [5] button on the remote commander. (Adjustment will take about 1 minute.)
11. Remove the disc when "DL END" is displayed.

Note: If an error is displayed during the adjustment so far, press again the [6] button and [0] button on the remote commander to execute re-adjustment.

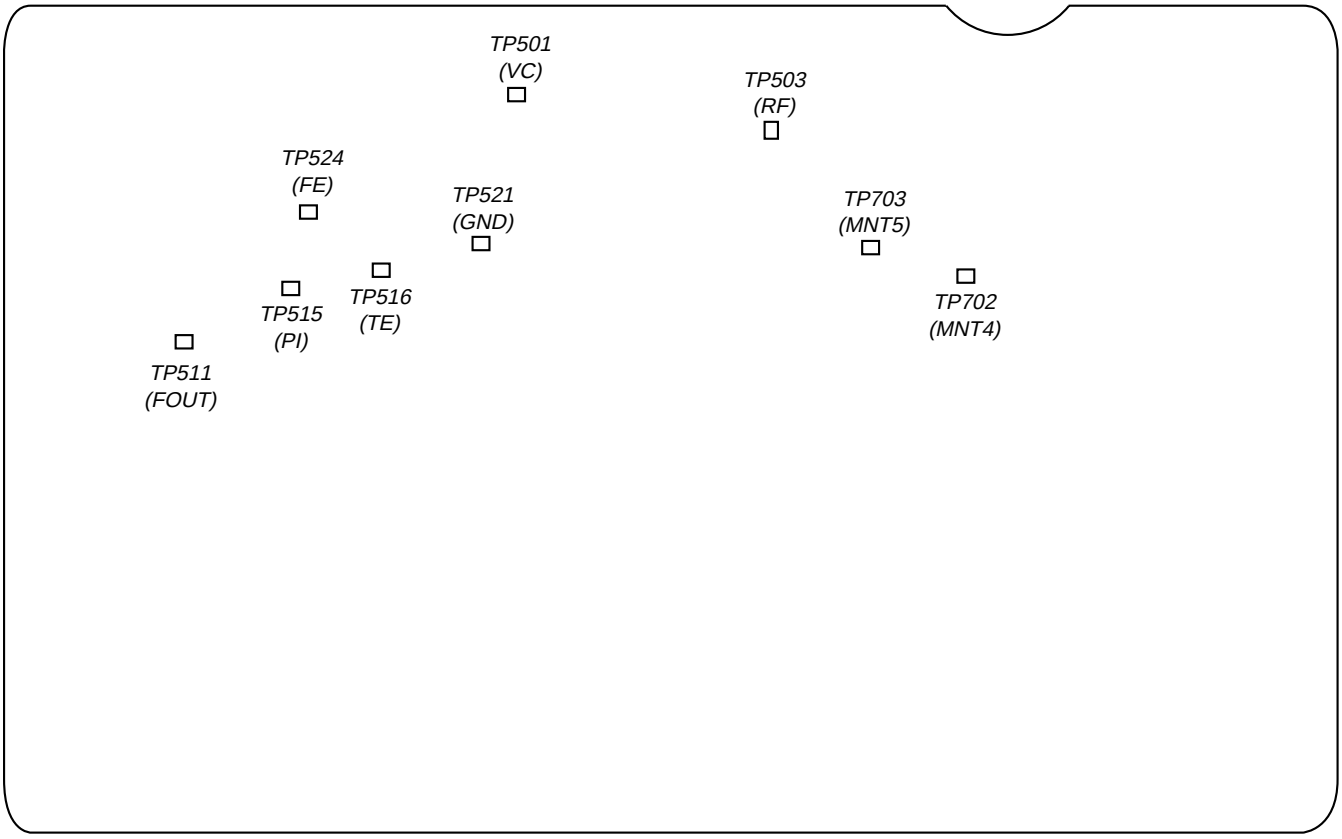
12. Press the [6] button and [1] button on the remote commander.
13. As the number and adjusted value are displayed, make sure that it is within the threshold.
14. Press the [1] button on the remote commander to proceed to the next item. (To return to the previous item, press the [2] button.)
15. Repeat steps 13 and 14.
16. After checking items up to No.43, press the [⏻] button to turn the power off.

Thresholds for Overall Adjustment

No.	Description	U limit	L limit
00	PI Level SL	0	4
01	PI Level DL	3	7
02	PI Offset CD	15D	2A3
03	PI Offset SL	15D	2A3
04	PI Offset DL	15D	2A3
05	PI Offset Disc Check	100	2FF
06	Traverse Offset CD		
07	Traverse Offset SL		
08	Traverse Offset DL		
09	Traverse Gain CD		
10	Traverse Gain SL		
11	Traverse Gain DL		
12	For PI Level Disc Check	0	2
13	PI Reflectance SL	2D28	7333
14	PI Reflectance DL	936	4083
15	Surface Reflect to CD Layer Distance	82	
16	Surface Reflect to DSD Layer Distance	41	82
17	Low Push-pull for Disc Check	4FDF	9999
18	High T Bal for Disc Check	0000	47AE
19	FE Offset CD		
20	FE Offset SL		
21	FE Offset DL		
22	Focus Bias CD	E0	20
23	Focus Bias SL	E0	20
24	Focus Bias DL0	E0	20
25	AGC Focus Gain CD	1500	3000
26	AGC Focus Gain DL	0851	1A00
27	AGC Focus Gain SL	0C28	2500
28	AGC Tracking Gain CD	1A00	3C00
29	AGC Tracking Gain SL	1100	2500
30	AGC Tracking Gain DL	1400	2700
31	RF Loop Filter Offset CD	F6	0A
32	RF Loop Filter Offset DSD	F6	0A
33	Tilt Disordered Point CD +side		
34	Tilt Disordered Point CD -side		
35	Tilt Disordered Point SL +side		
36	Tilt Disordered Point SL -side		
37	Tilt Disordered Point DL +side		
38	Tilt Disordered Point DL -side/		
39	Tilt Offset CD	F0	10
40	Tilt Offset SL	F0	10
41	Tilt Offset DL	F0	10
42	Focus Balance SL		
43	Focus Balance DL		

Note: 1. No threshold specified for ▨ items.
2. All thresholds are displayed in Hex.

Adjustment Location:
– MAIN Board (Component Side) –



SECTION 7
DIAGRAMS

7-1. NOTES FOR PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM

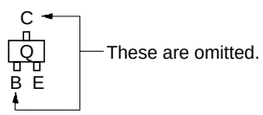
Note on Printed Wiring Board:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ○ : Through hole.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor



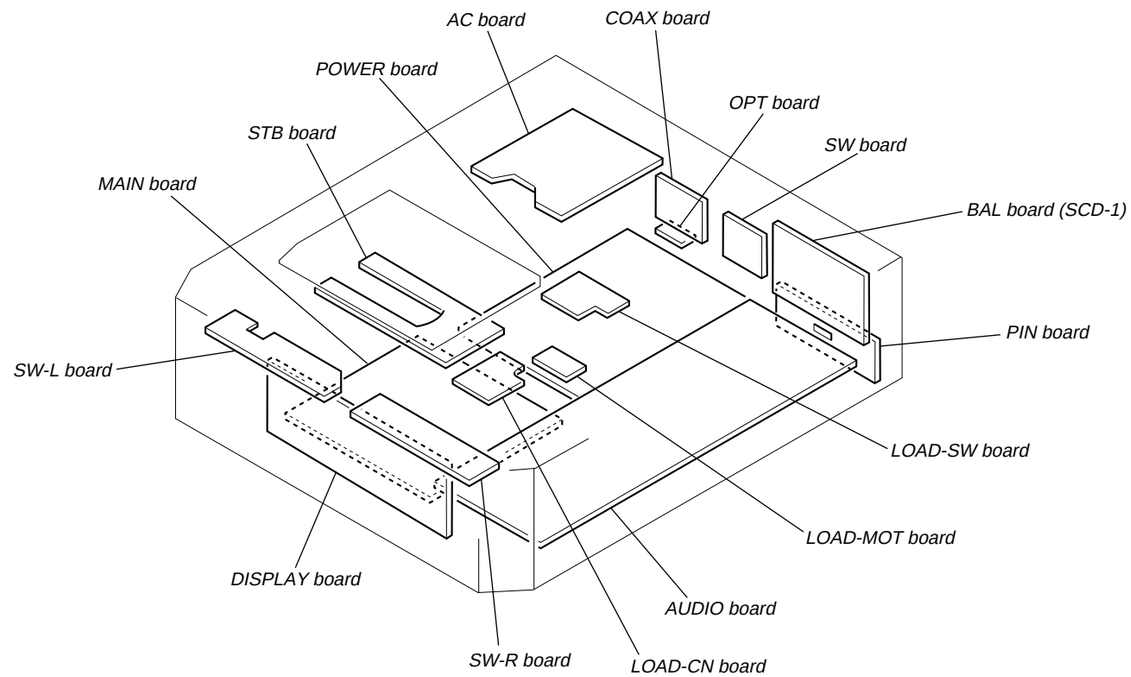
Note on Schematic Diagram:

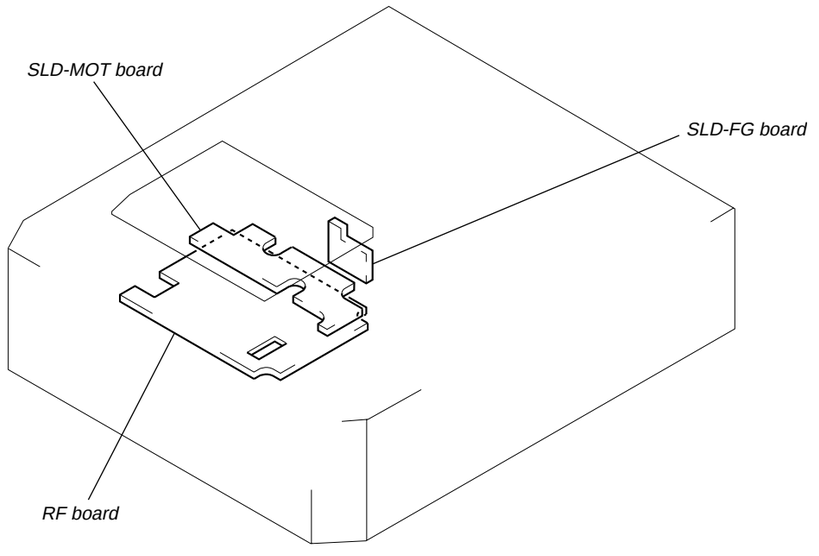
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- : fusible resistor.
- : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

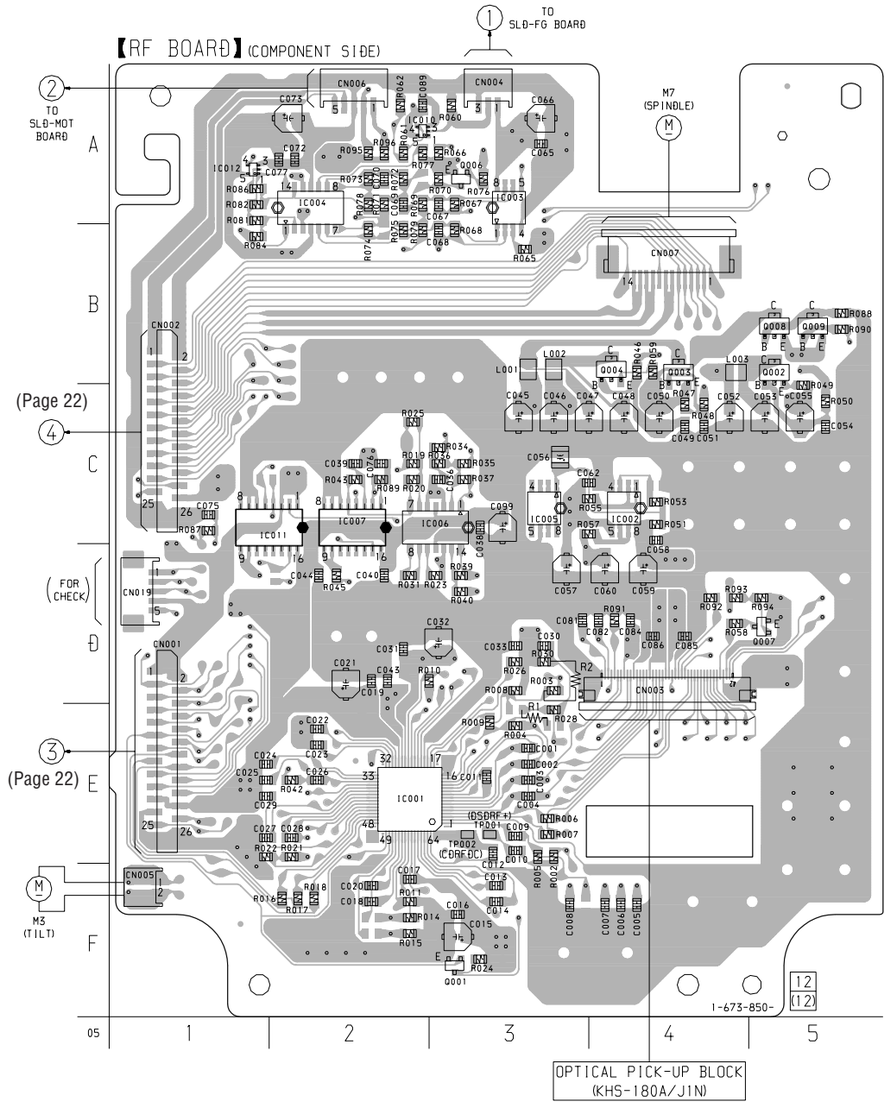
- B+ : B+ Line.
- B− : B– Line.
- Voltages and waveforms are dc with respect to ground in adjustment mode.
  no mark :STOP
  ( ) :SACD
  ⟨⟨ ⟩⟩ :CD
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : SACD
  : CD
  : DIGITAL OUT

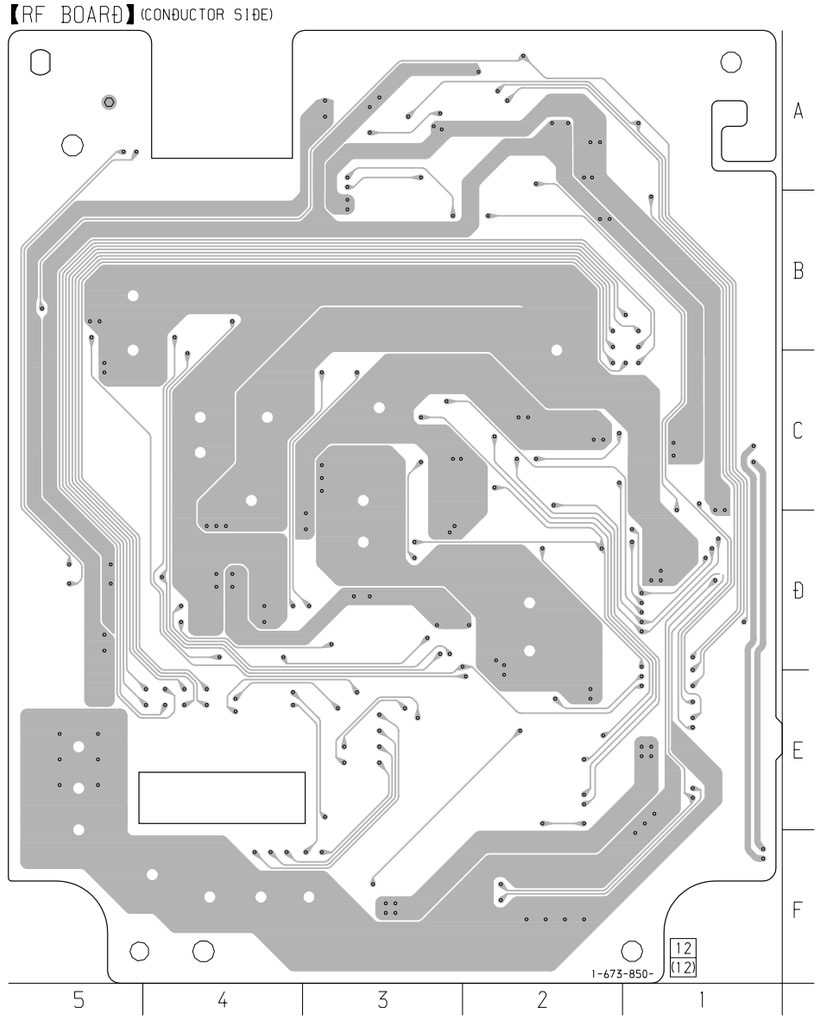
- **Circuit Boards Location**

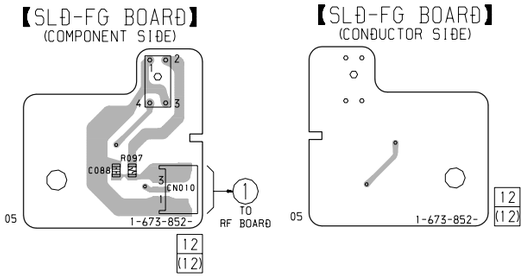


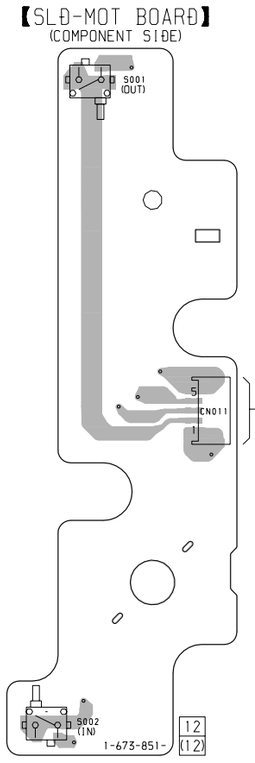


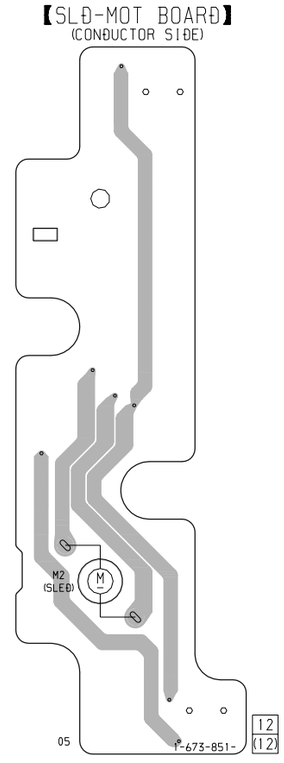
7-2. PRINTED WIRING BOARDS – RF/SLD-FG/SLD-MOT Boards – • See page 17 for Circuit Boards Location.







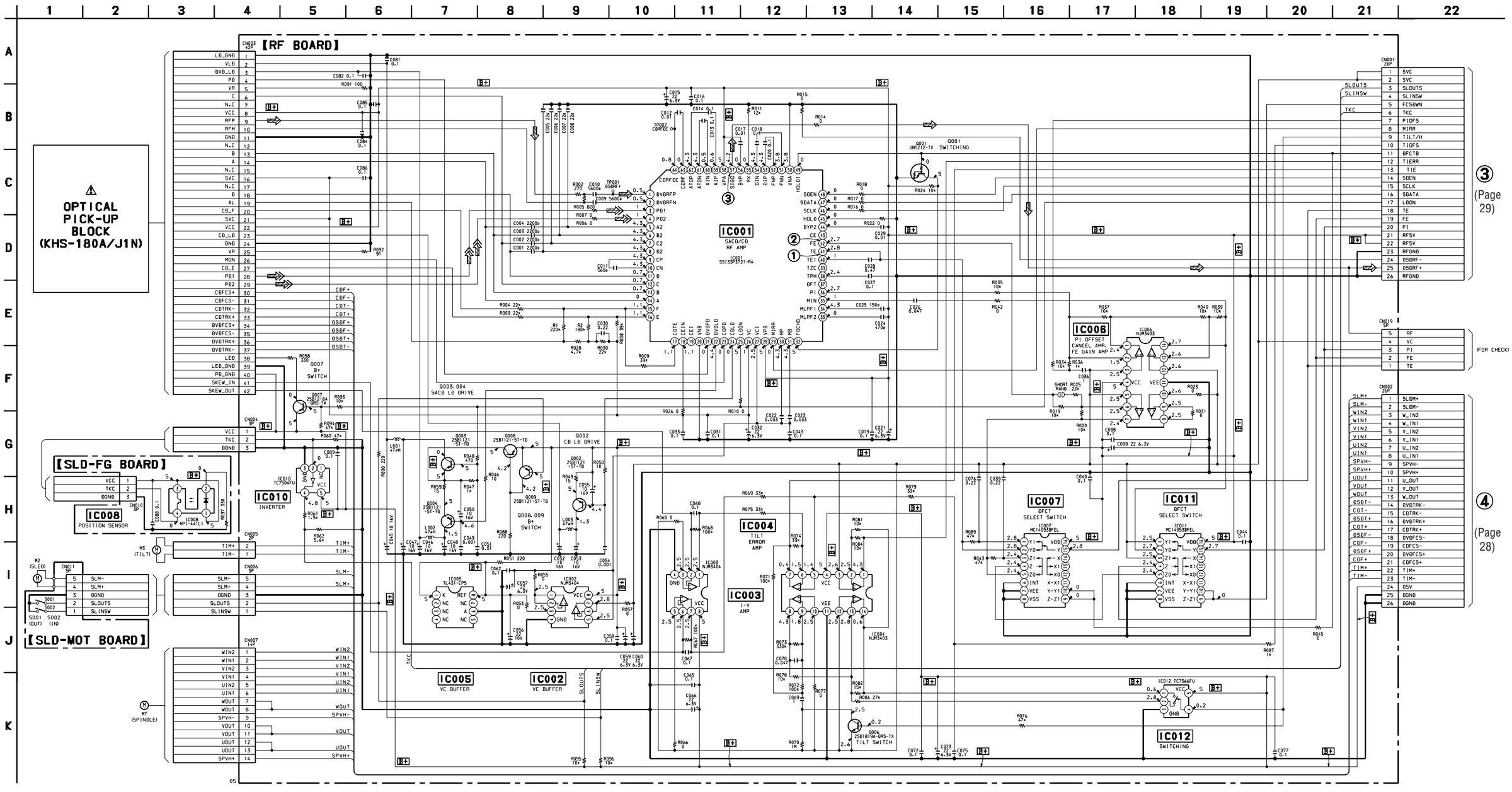




- **Semiconductor Location**
  –RF Board–

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
IC001	E-2	IC010	A-2	Q004	B-4
IC002	C-4	IC011	C-2	Q006	A-3
IC003	A-3	IC012	A-1	Q007	D-5
IC004	A-2			Q008	B-5
IC005	C-3	Q001	F-3	Q009	B-5
IC006	C-3	Q002	B-5		
IC007	C-2	Q003	B-4		

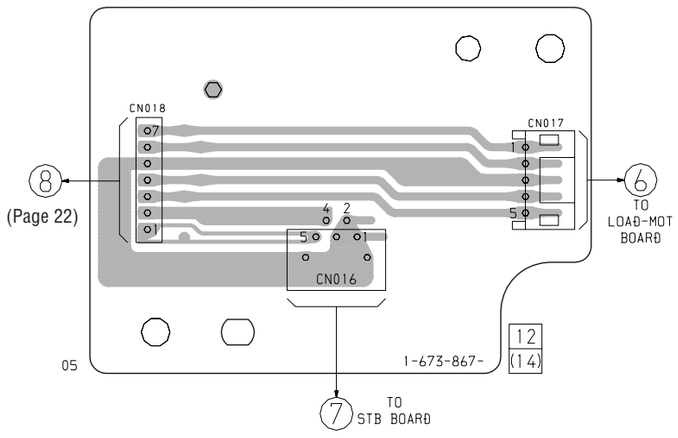
7-3. SCHEMATIC DIAGRAM – RF/SLD-FG/SLD-MOT Boards – • See page 40 for Waveforms.



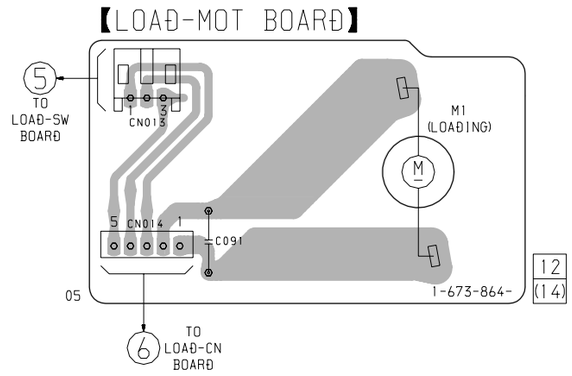
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

7-4. PRINTED WIRING BOARDS – LOAD-CN/LOAD-MOT/LOAD-SW/STB Boards – • See page 17 for Circuit Boards Location.

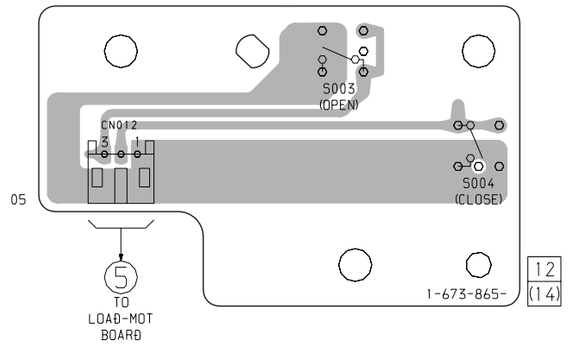
【LOAÐ-CN BOARÐ】



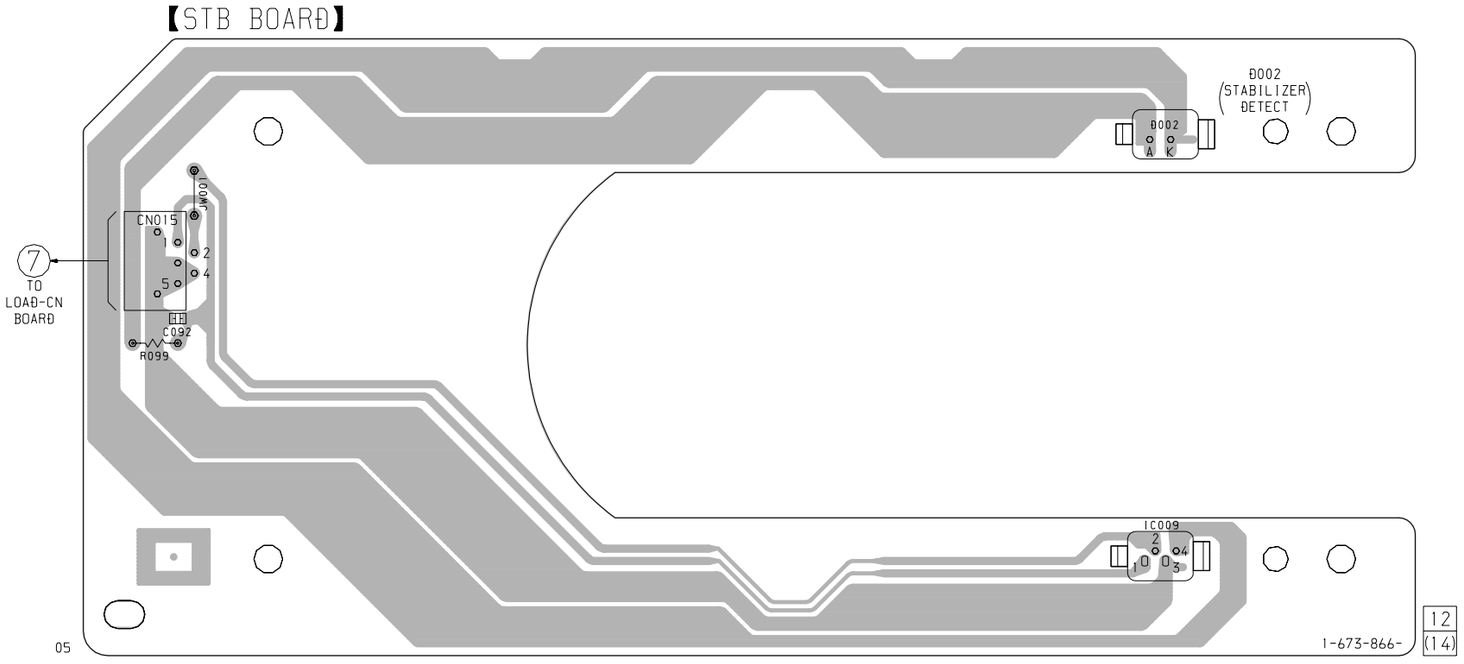
【LOAÐ-MOT BOARÐ】



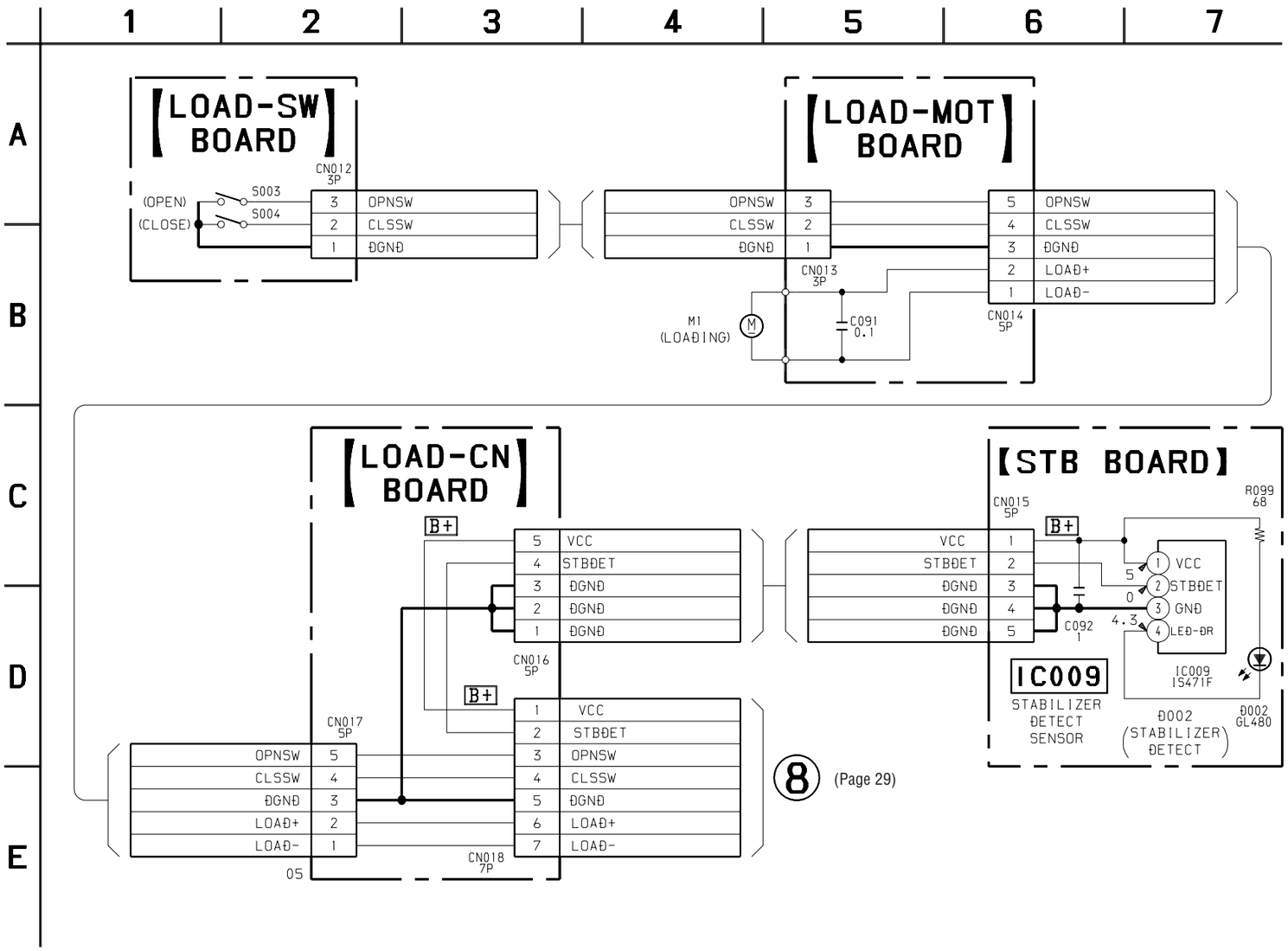
【LOAÐ-SW BOARÐ】



【STB BOARÐ】



7-5. SCHEMATIC DIAGRAM – LOAD-CN/LOAD-MOT/LOAD-SW/STB Boards –

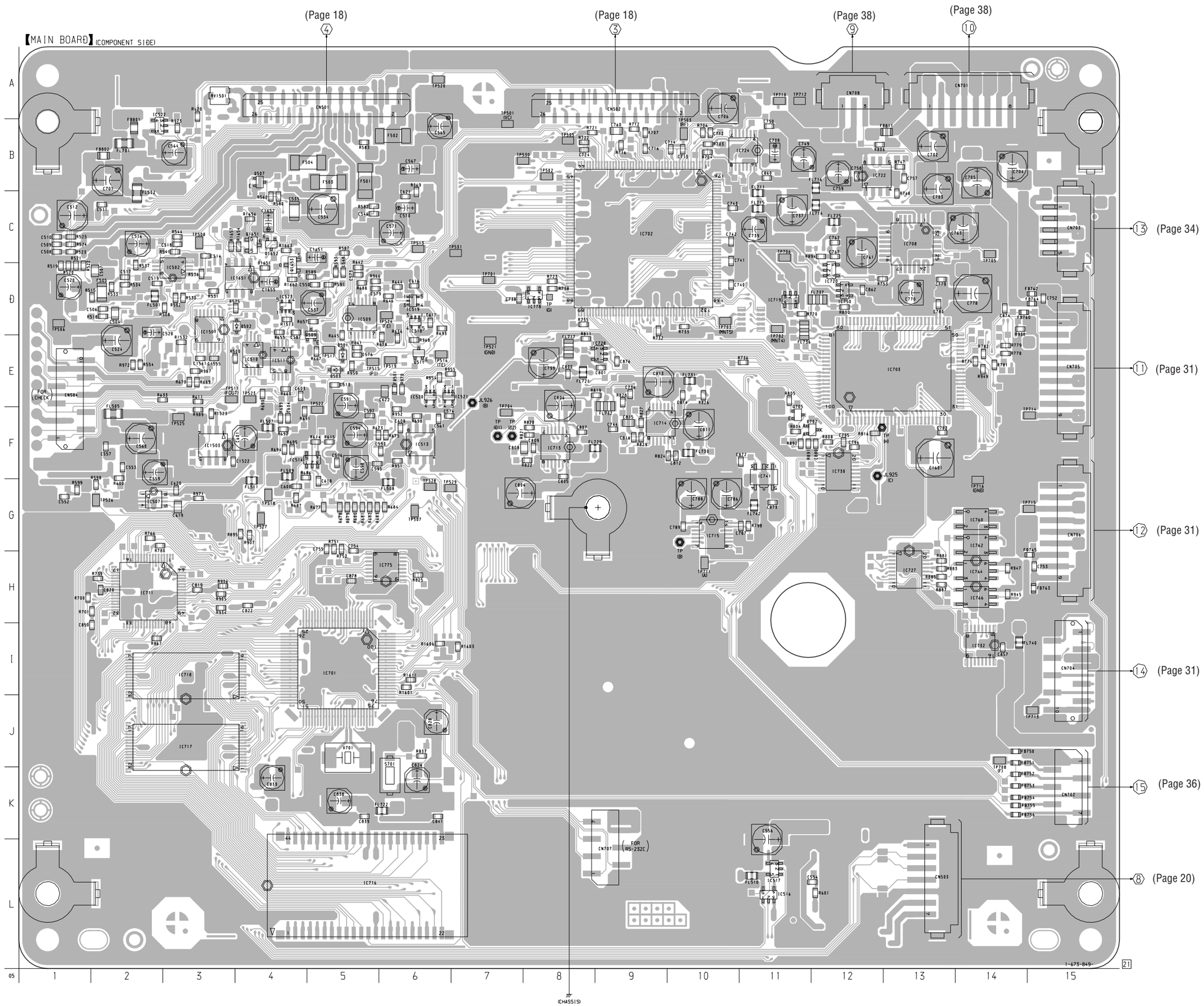


7-6. PRINTED WIRING BOARD – MAIN Board (component side) –

• See page 17 for Circuit Boards Location.

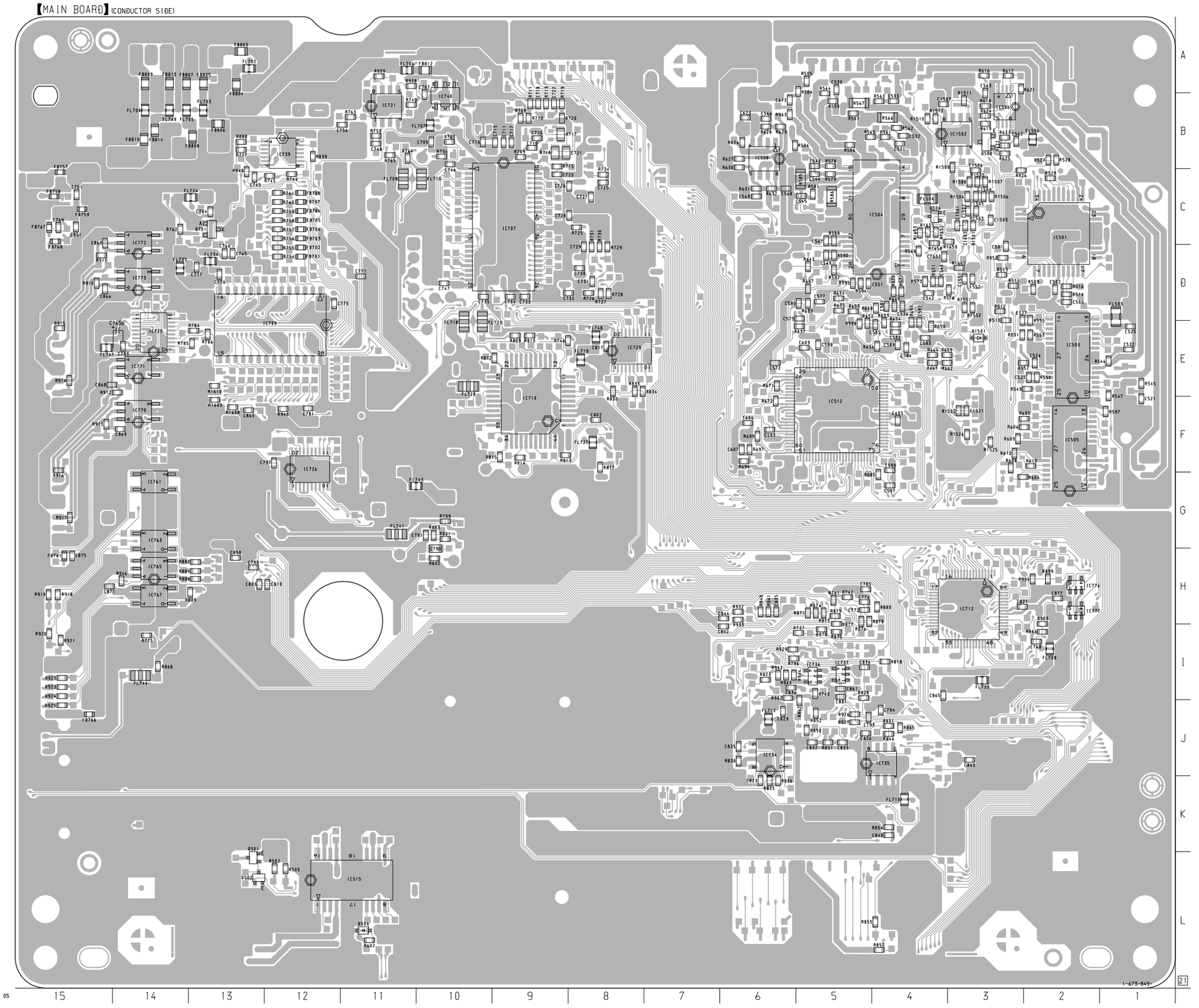
- **Semiconductor Location**

Ref. No.	Location
D501	E-5
D502	D-4
D503	E-5
D702	F-12
IC502	D-3
IC507	G-2
IC509	D-5
IC510	E-4
IC511	E-4
IC513	F-6
IC514	F-5
IC516	L-11
IC517	L-11
IC519	D-6
IC520	E-6
IC521	E-6
IC522	B-2
IC523	D-4
IC701	I-5
IC702	C-9
IC703	E-13
IC708	C-13
IC711	H-2
IC713	F-8
IC714	F-9
IC715	G-10
IC716	L-5
IC717	J-3
IC718	I-3
IC719	D-11
IC720	D-12
IC722	B-12
IC724	B-11
IC727	H-13
IC728	E-9
IC730	F-12
IC732	I-14
IC741	F-11
IC750	D-12
IC760	G-14
IC762	G-14
IC764	H-14
IC766	H-14
IC775	H-6
IC778	D-8
IC1501	D-3
IC1503	F-3
IC1651	D-4
Q507	B-4
Q509	E-5
Q511	E-6
Q705	F-11
Q1651	C-4
Q1652	C-4
Q1653	D-4



7-7. PRINTED WIRING BOARD – MAIN Board (conductor side) –

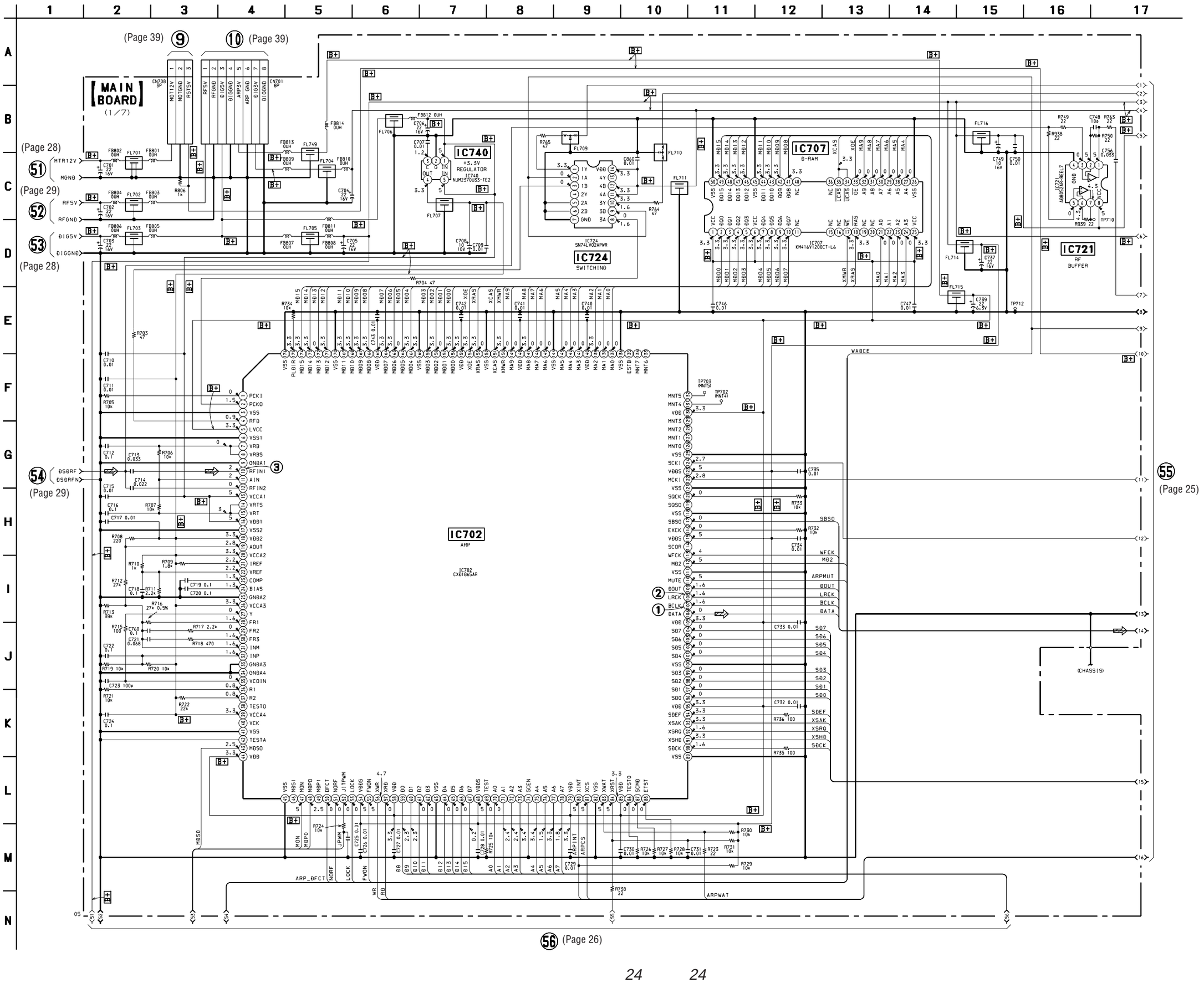
• See page 17 for Circuit Boards Location.



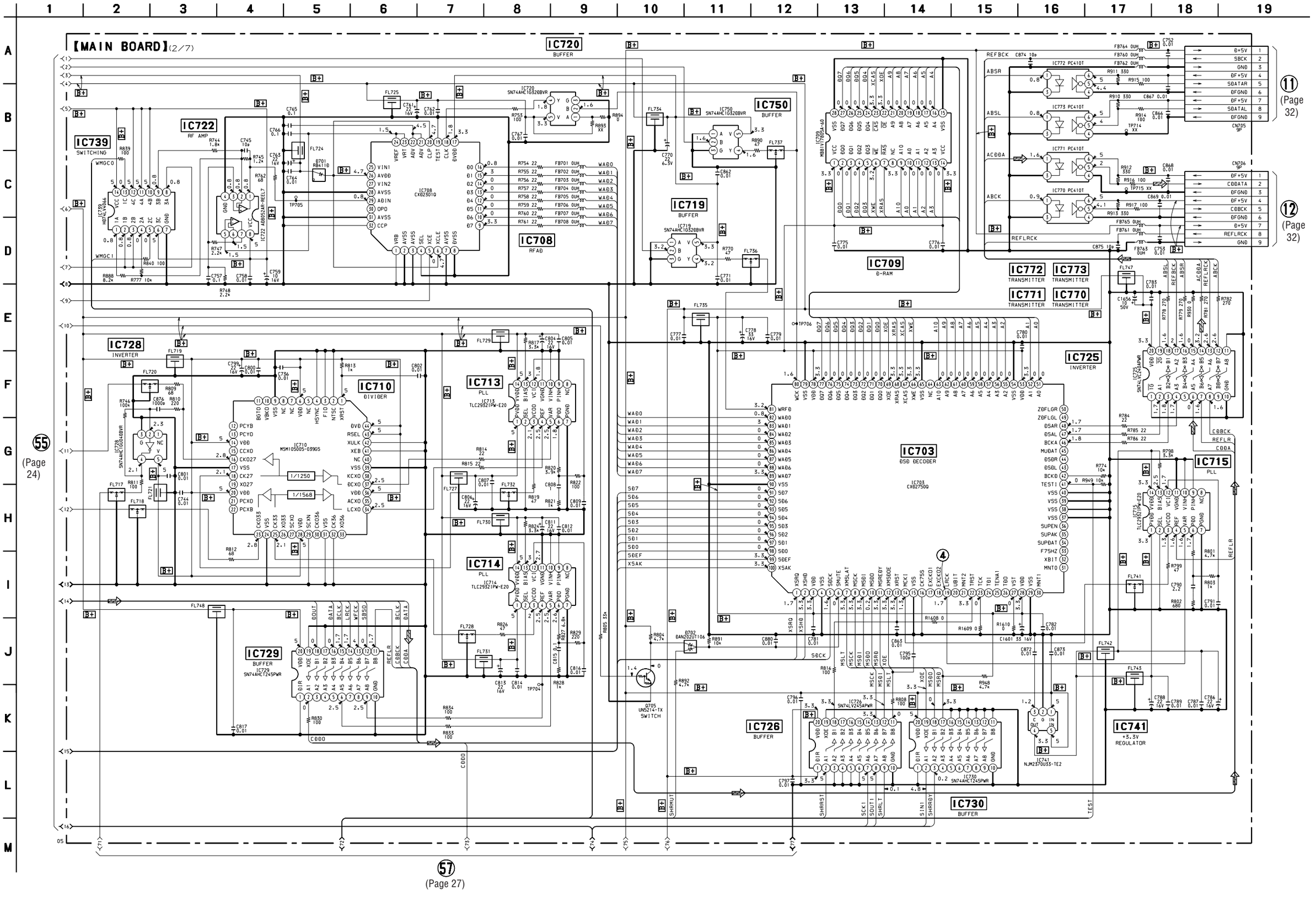
• **Semiconductor Location**

Ref. No.	Location
D504	L-11
D701	C-13
D1501	E-3
IC501	C-2
IC503	E-2
IC504	C-4
IC505	F-2
IC506	B-3
IC508	B-6
IC512	F-5
IC515	L-11
IC707	C-9
IC709	E-12
IC710	F-9
IC712	H-3
IC721	B-11
IC725	E-14
IC726	F-12
IC729	E-8
IC734	J-6
IC735	J-4
IC736	I-5
IC737	I-5
IC739	B-12
IC740	B-10
IC761	G-14
IC763	G-14
IC765	H-14
IC767	H-14
IC770	F-14
IC771	E-14
IC772	C-14
IC773	D-14
IC776	H-2
IC777	H-2
IC1502	B-3
Q501	L-13
Q502	L-13
Q506	C-4
Q508	B-3

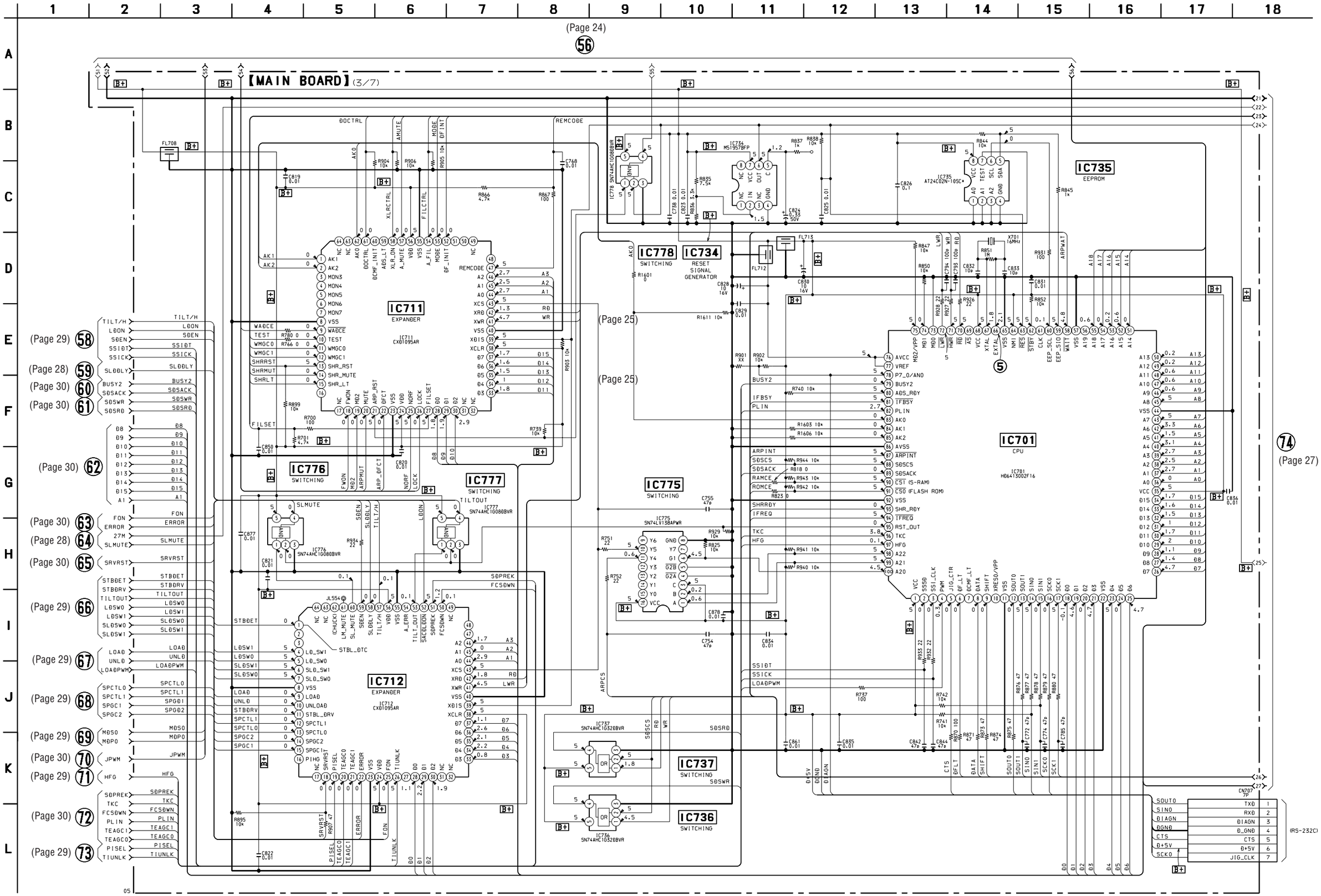
7-8. SCHEMATIC DIAGRAM – MAIN Board (1/7) – • See page 40 for Waveforms.



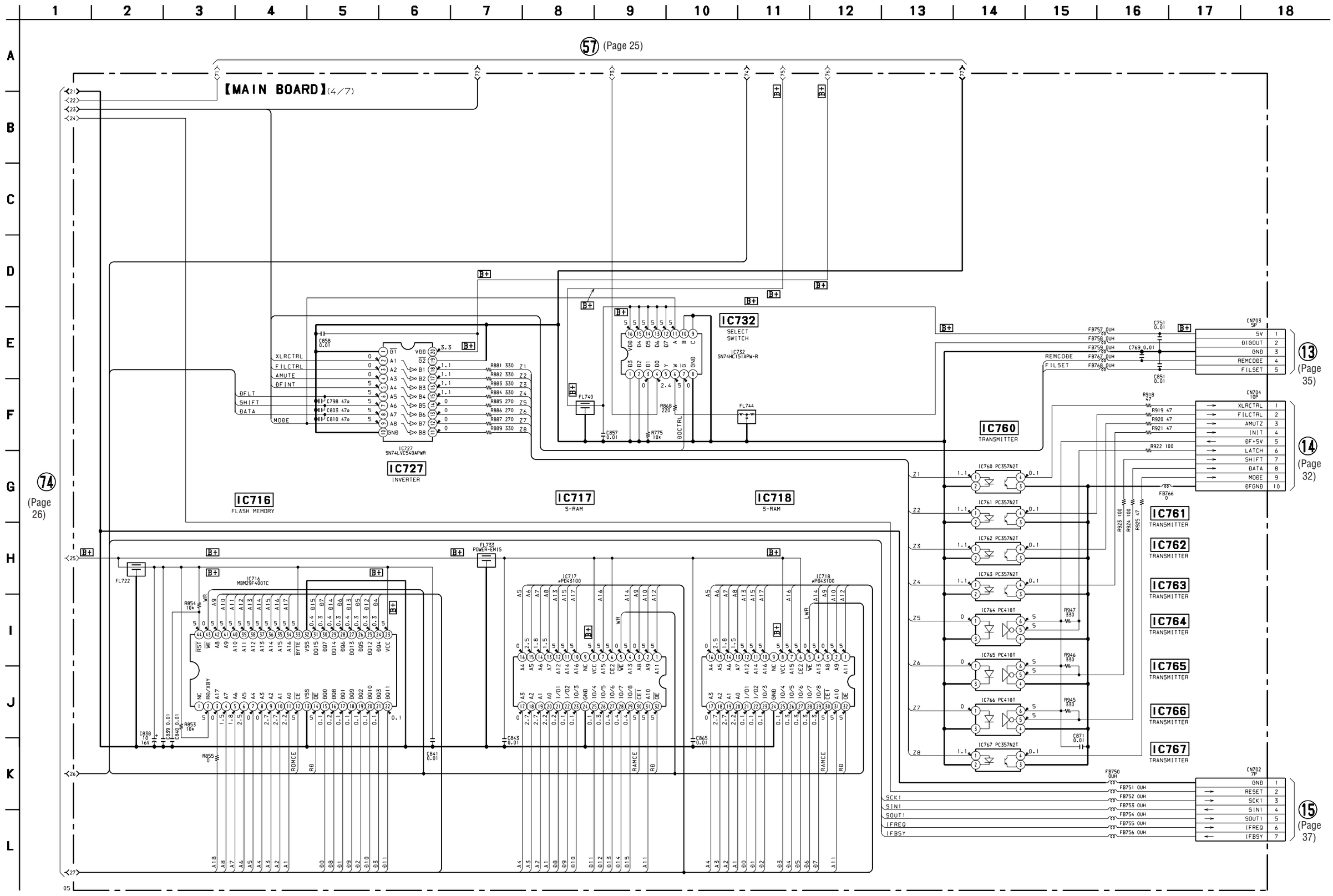
7-9. SCHEMATIC DIAGRAM – MAIN Board (2/7) – • See page 40 for Waveforms. • See page 42 for IC Block Diagrams.



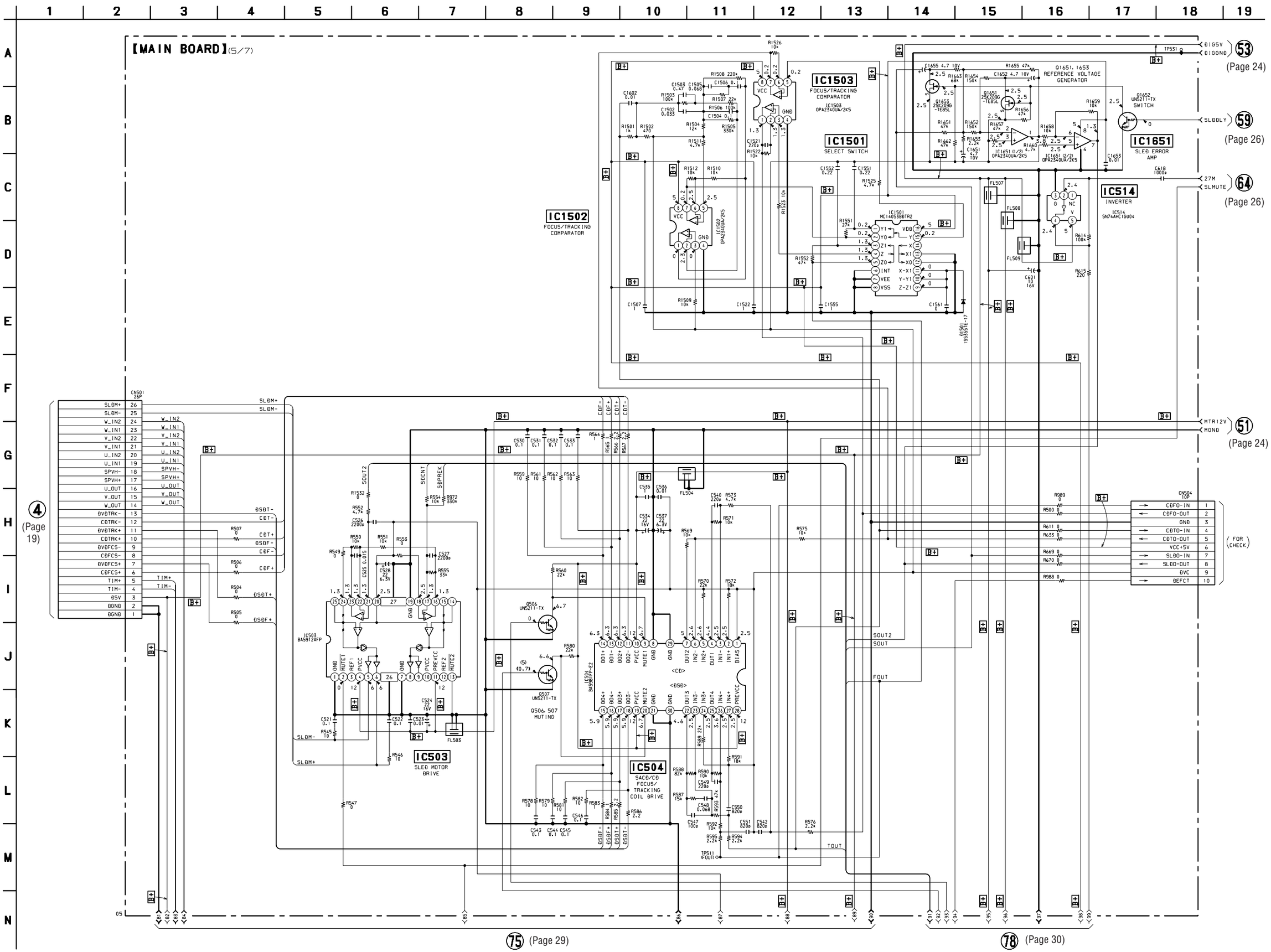
7-10. SCHEMATIC DIAGRAM – MAIN Board (3/7) – • See page 40 for Waveforms.



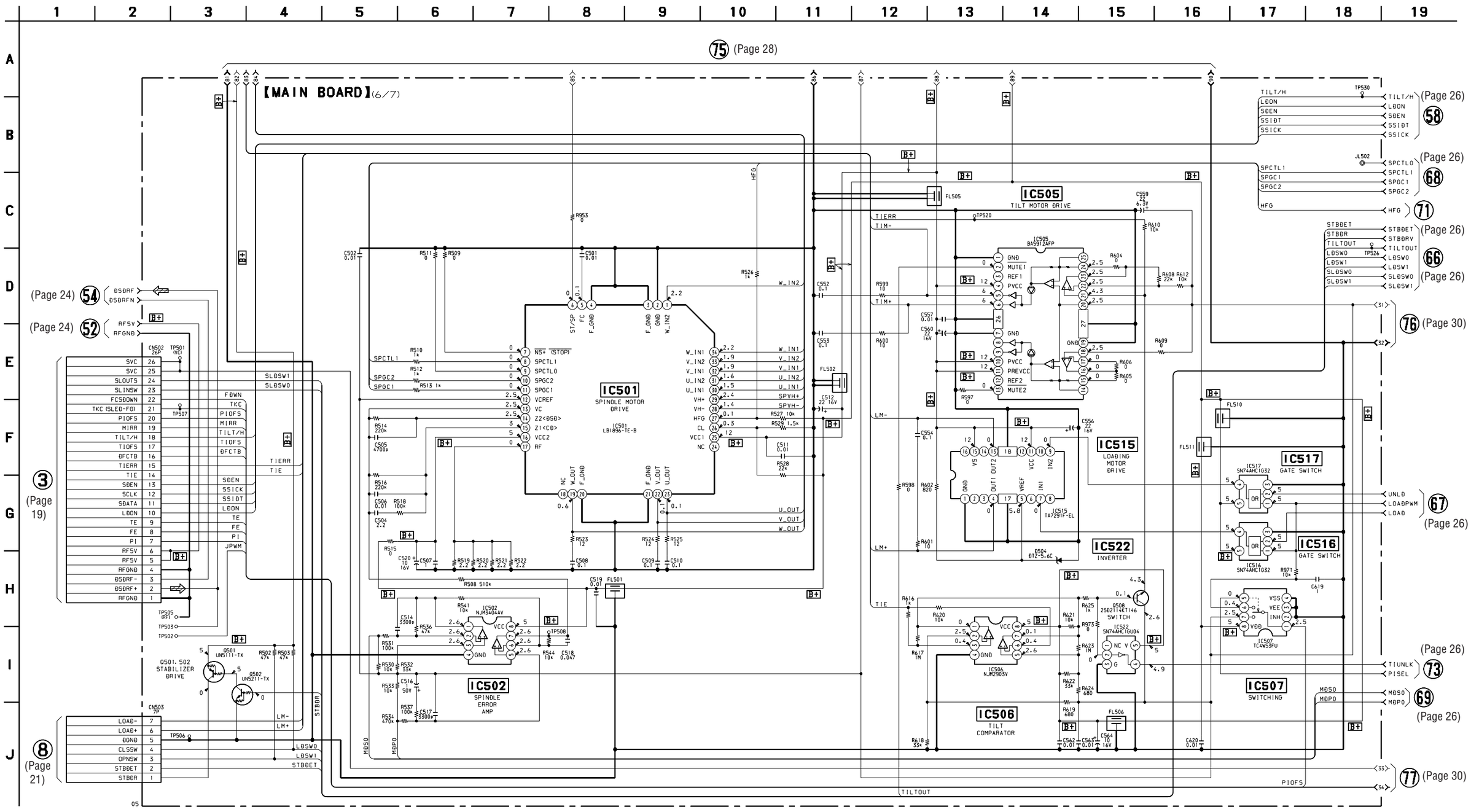
7-11. SCHEMATIC DIAGRAM – MAIN Board (4/7) –



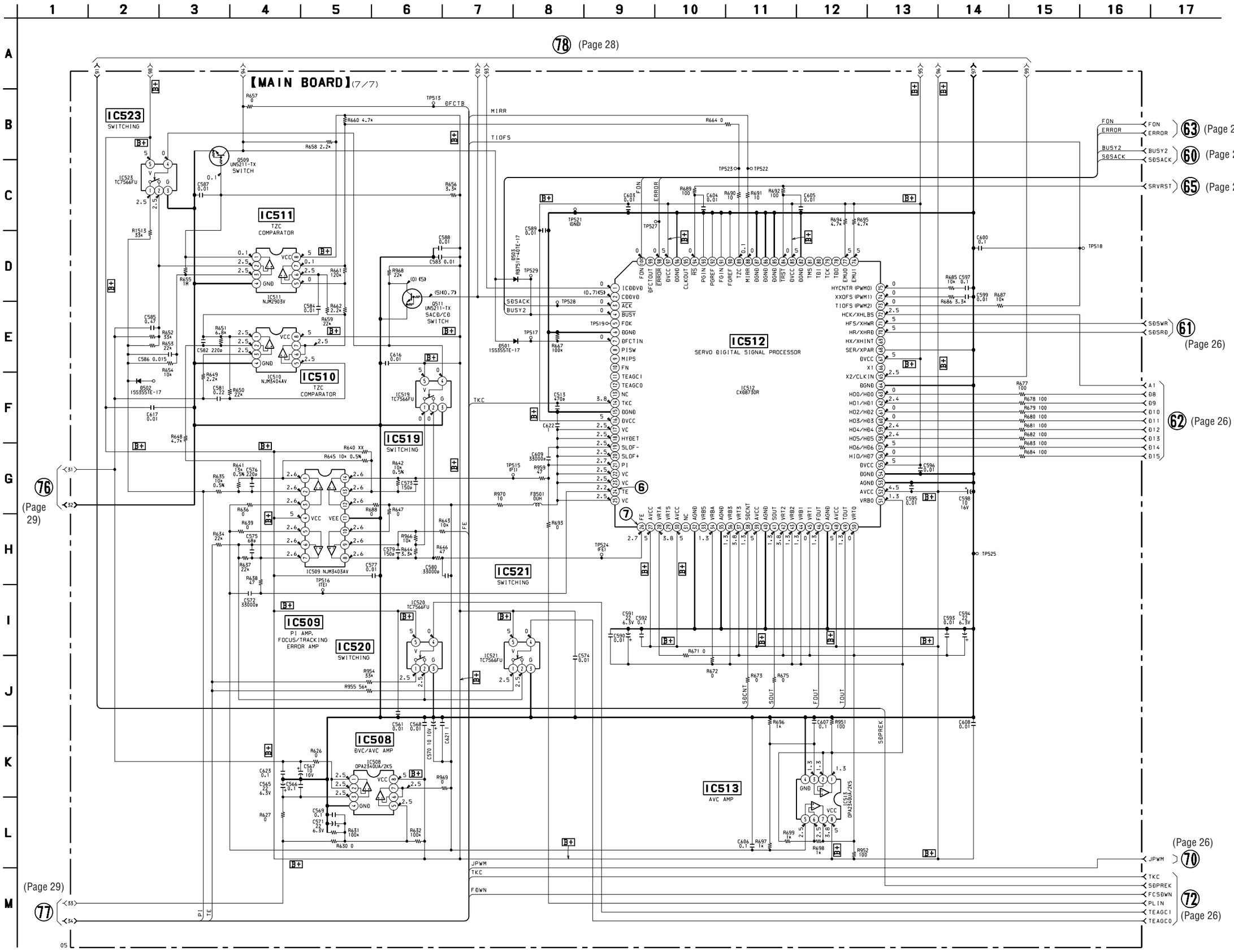
7-12. SCHEMATIC DIAGRAM – MAIN Board (5/7) – • See page 42 for IC Block Diagrams.



7-13. SCHEMATIC DIAGRAM – MAIN Board (6/7) – • See page 42 for IC Block Diagrams.



7-14. SCHEMATIC DIAGRAM – MAIN Board (7/7) – • See page 40 for Waveforms.

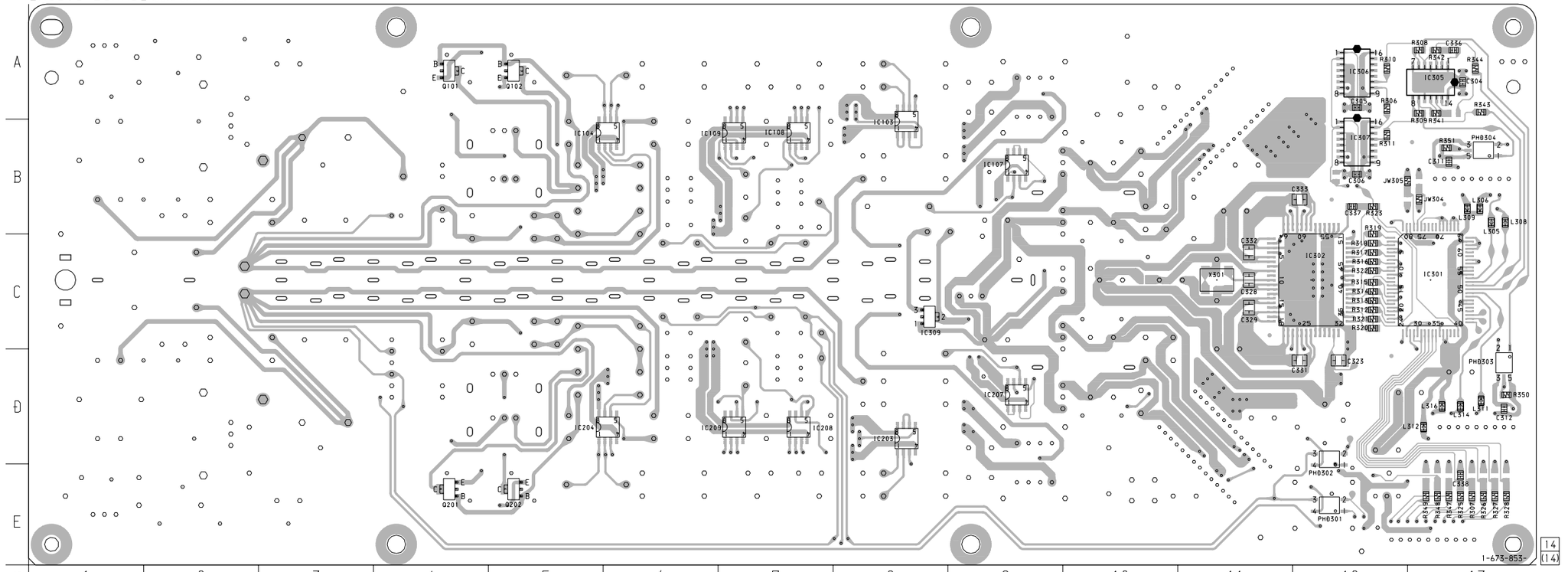


- **Semiconductor Location (Conductor Side)**

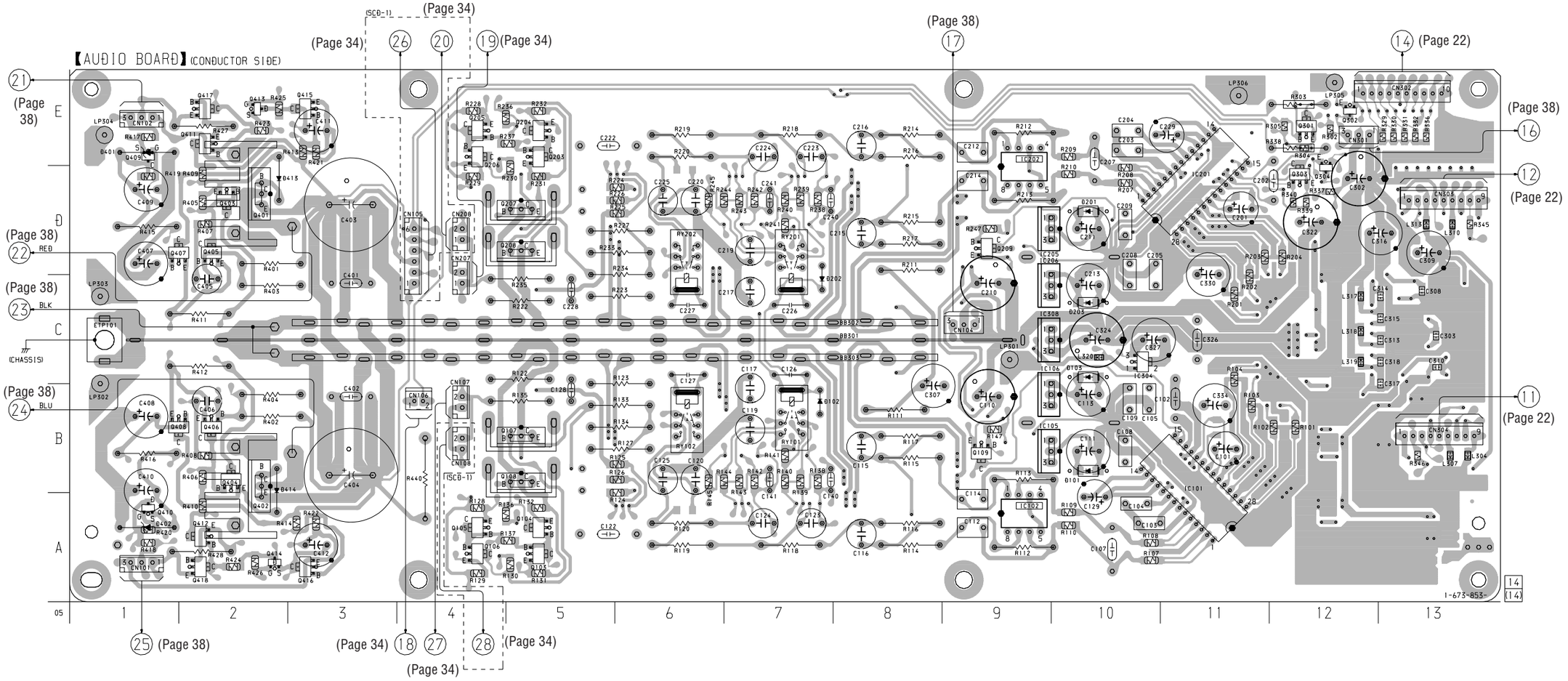
Ref. No.	Location
D101	B-10
D102	B-7
D103	C-10
D201	D-10
D202	C-7
D203	C-10
D401	E-1
D402	A-1
D413	D-2
D414	B-2
IC101	B-11
IC102	A-9
IC105	B-9
IC106	B-9
IC201	D-11
IC202	D-9
IC205	D-9
IC206	C-9
IC304	C-10
IC308	C-9
Q103	A-5
Q104	A-5
Q105	A-4
Q106	A-4
Q107	B-5
Q108	B-5
Q109	B-9
Q203	E-5
Q204	E-5
Q205	E-4
Q206	E-4
Q207	D-5
Q208	D-5
Q209	D-9
Q301	E-12
Q302	E-12
Q303	D-12
Q304	D-12
Q401	D-2
Q402	B-2
Q403	D-2
Q404	B-2
Q405	D-2
Q406	B-2
Q407	D-1
Q408	B-1
Q409	E-1
Q410	A-1
Q411	E-2
Q412	A-2
Q413	E-2
Q414	A-2
Q415	E-3
Q416	A-3
Q417	E-2
Q418	A-2

7-15. PRINTED WIRING BOARD – AUDIO Board – • See page 17 for Circuit Boards Location.

【AUDIO BOARD】(COMPONENT SIDE)



【AUDIO BOARD】(CONDUCTOR SIDE)

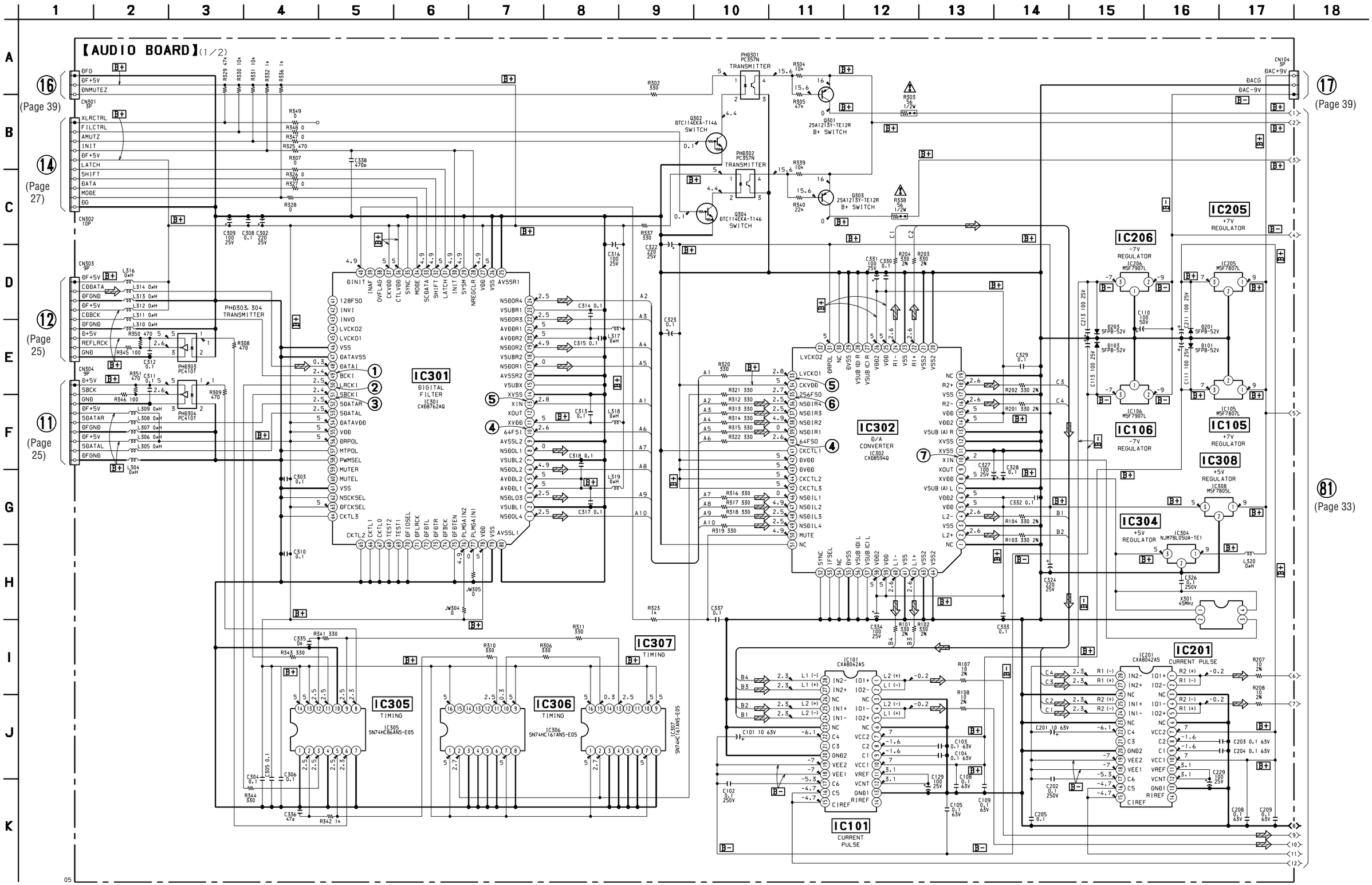


- **Semiconductor Location (Component Side)**

Ref. No.	Location
IC103	B-8
IC104	B-6
IC107	B-9
IC108	B-7
IC109	B-7
IC203	D-8
IC204	D-6
IC207	D-9
IC208	D-7
IC209	D-7
IC301	C-13
IC302	C-12
IC305	A-13
IC306	A-12
IC307	B-12
IC309	C-8
PHD301	E-12
PHD302	D-12
PHD303	D-13
PHD304	B-13
Q101	A-4
Q102	A-5
Q201	E-4
Q202	E-5

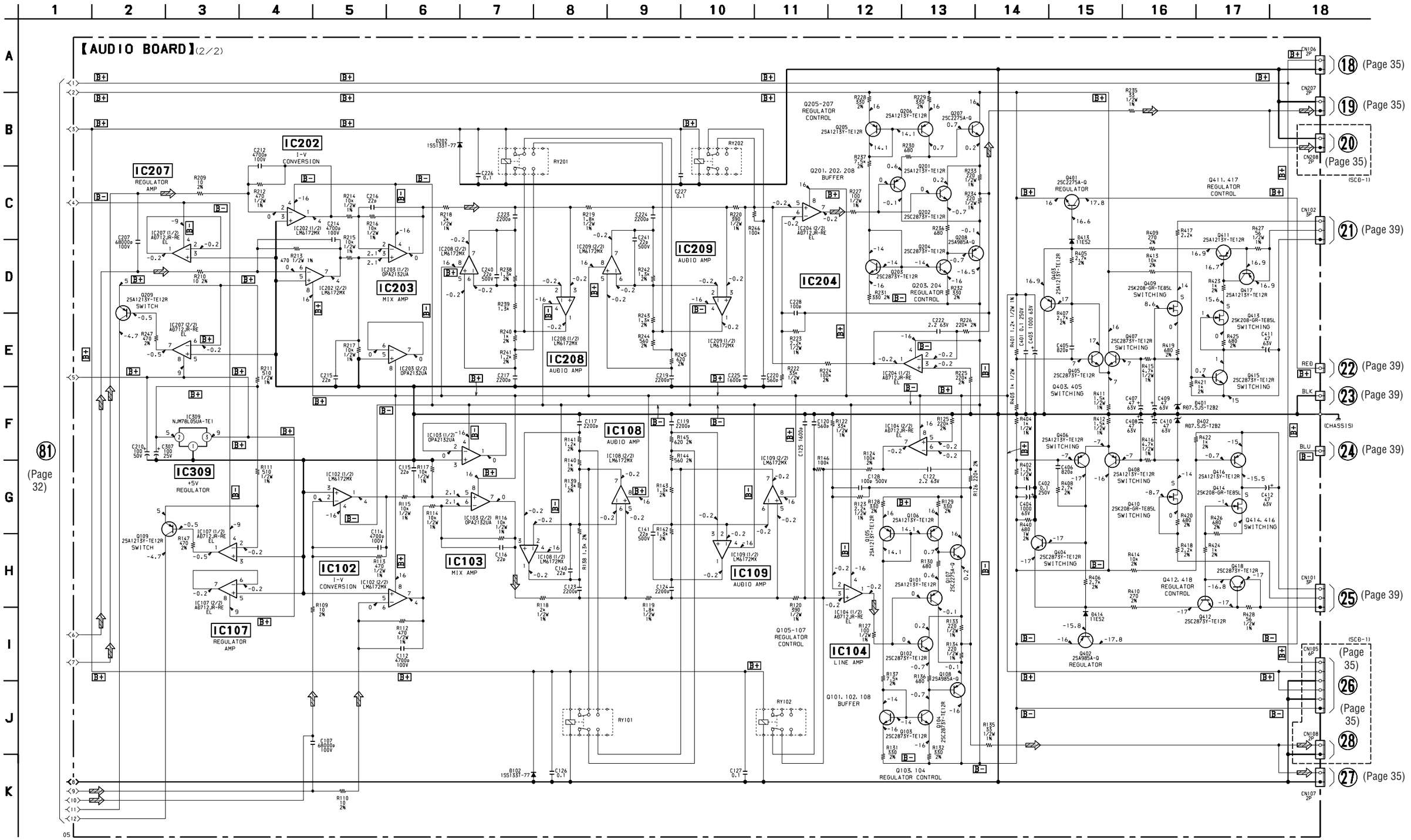
7-16. SCHEMATIC DIAGRAM – AUDIO Board (1/2) –

• See page 40 for Waveforms. • See page 41 for IC Block Diagrams.



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

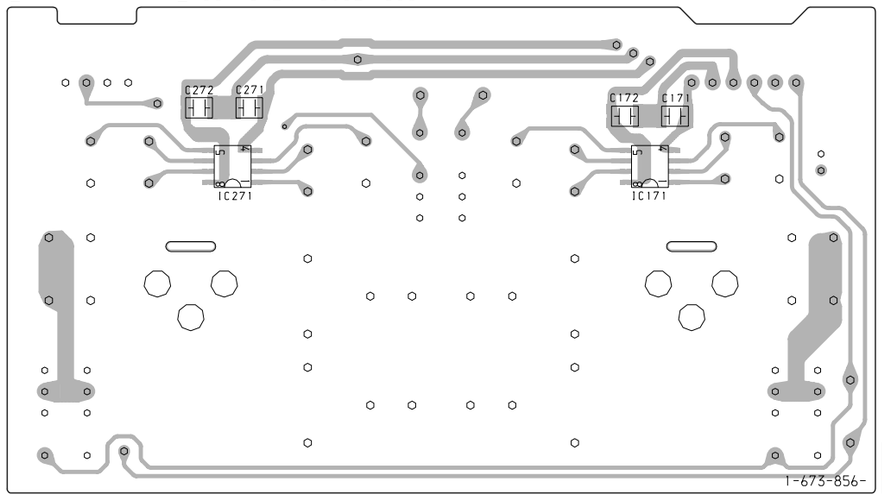
7-17. SCHEMATIC DIAGRAM – AUDIO Board (2/2) – • See page 40 for Waveforms.



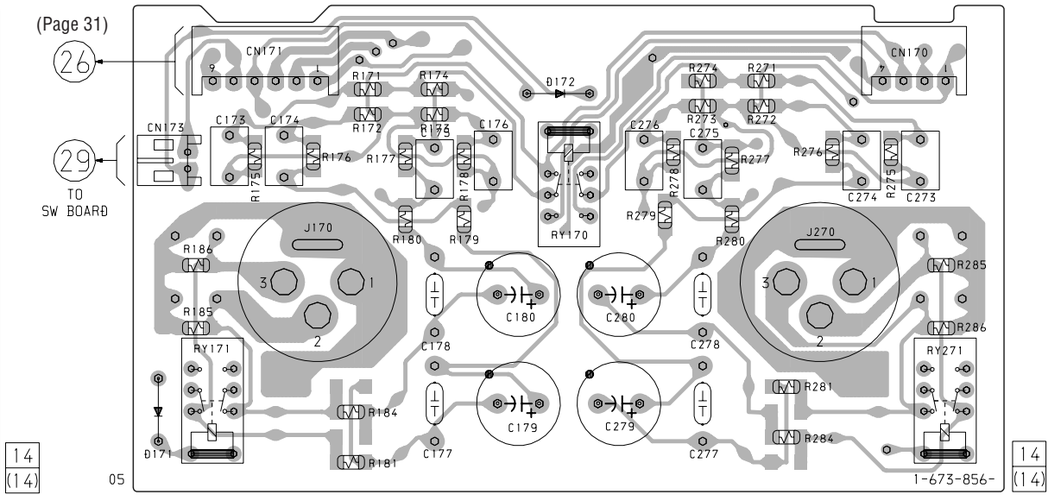
7-18. PRINTED WIRING BOARDS – BAL (SCD-1)/COAX/OPT/PIN/SW Boards –

• See page 17 for Circuit Boards Location.

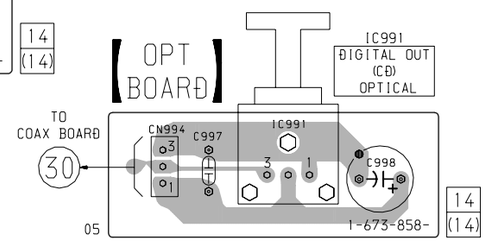
【BAL BOARD】(COMPONENT SIDE) (SCD-1)



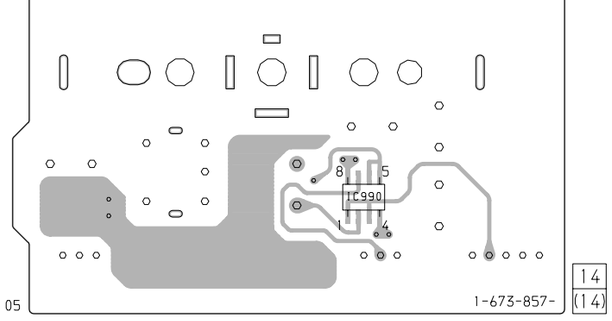
【BAL BOARD】(CONDUCTOR SIDE) (SCD-1)



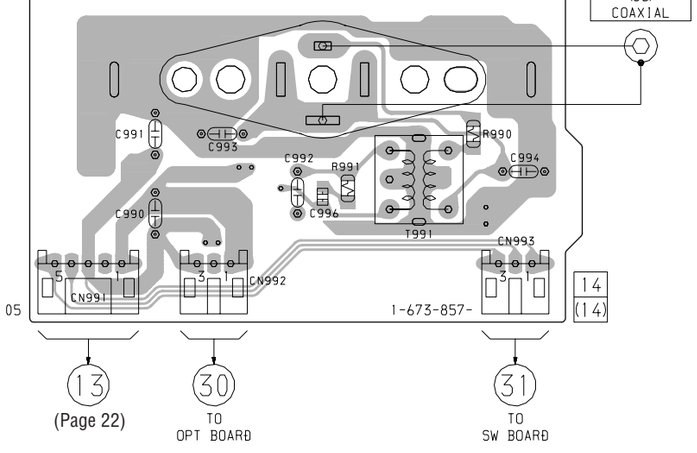
【OPT BOARD】



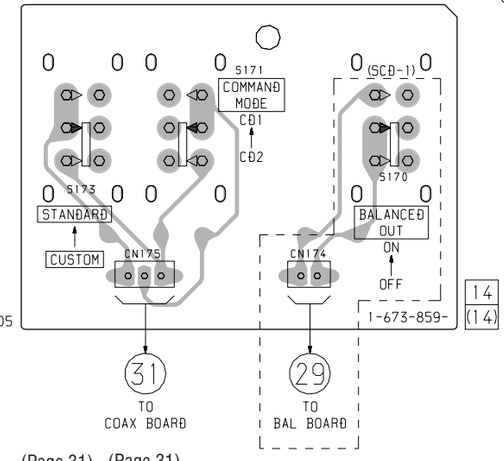
【COAX BOARD】(COMPONENT SIDE)



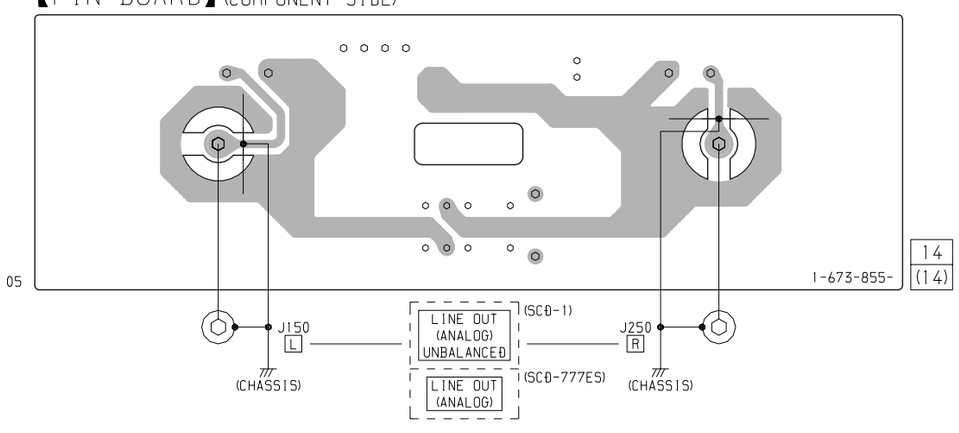
【COAX BOARD】(CONDUCTOR SIDE)



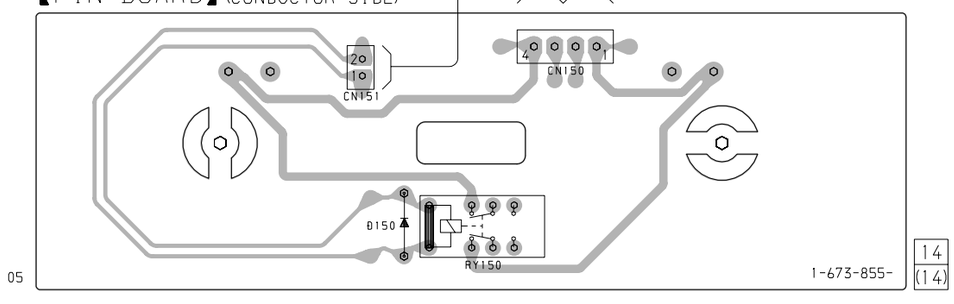
【SW BOARD】



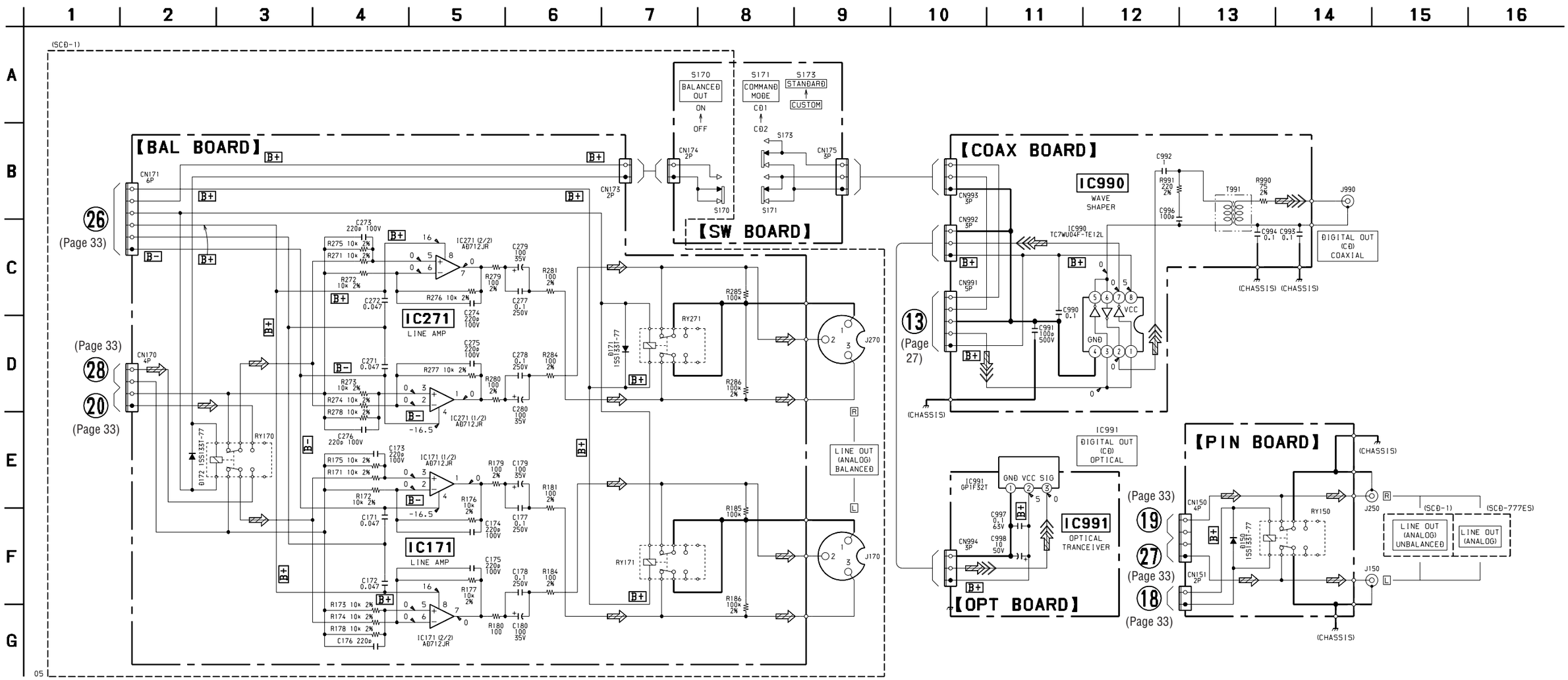
【PIN BOARD】(COMPONENT SIDE)



【PIN BOARD】(CONDUCTOR SIDE)



7-19. SCHEMATIC DIAGRAM – BAL (SCD-1)/COAX/OPT/PIN/SW Boards –

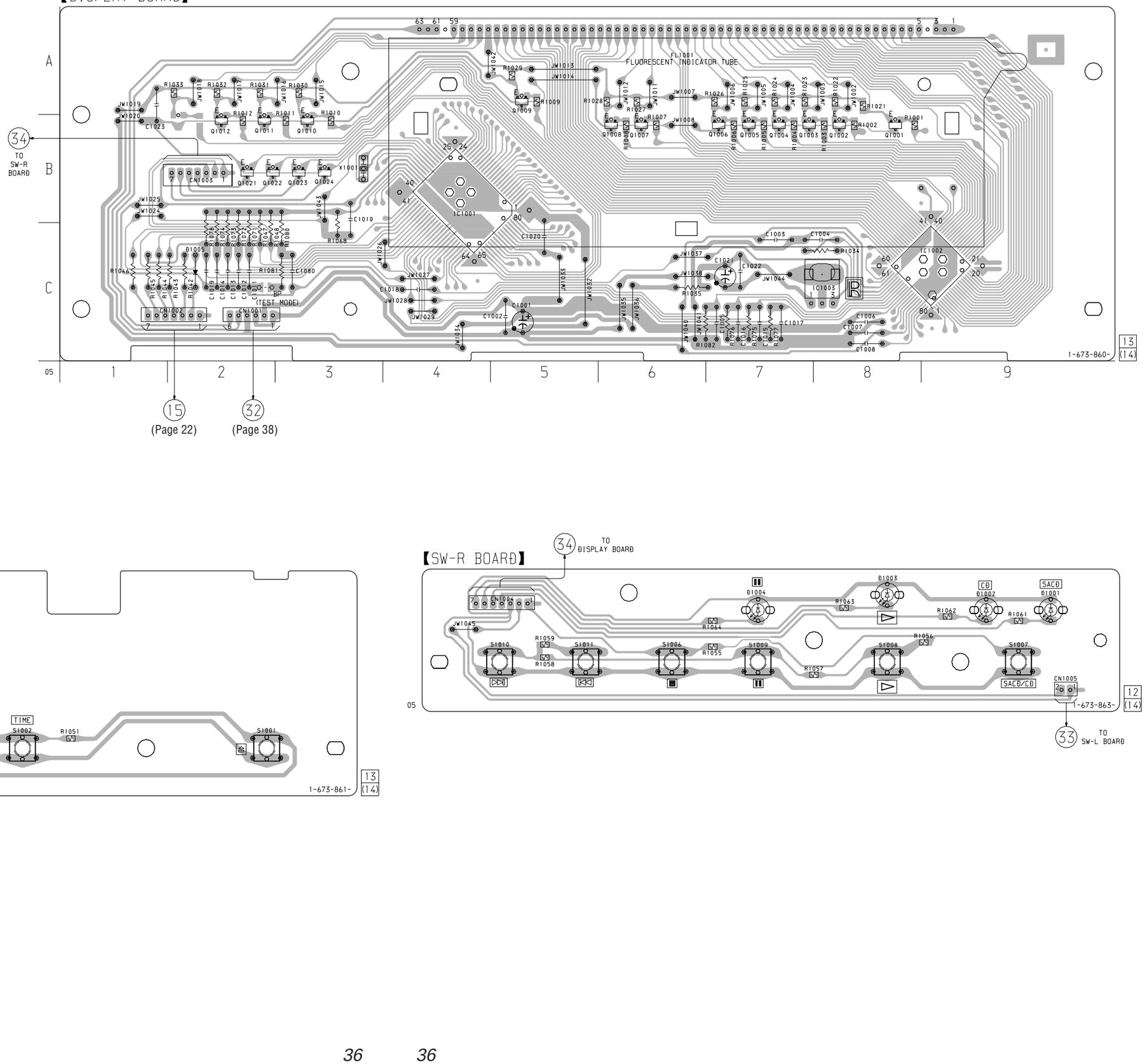


7-20. PRINTED WIRING BOARDS – DISPLAY/SW-L/SW-R Boards – • See page 17 for Circuit Boards Location.

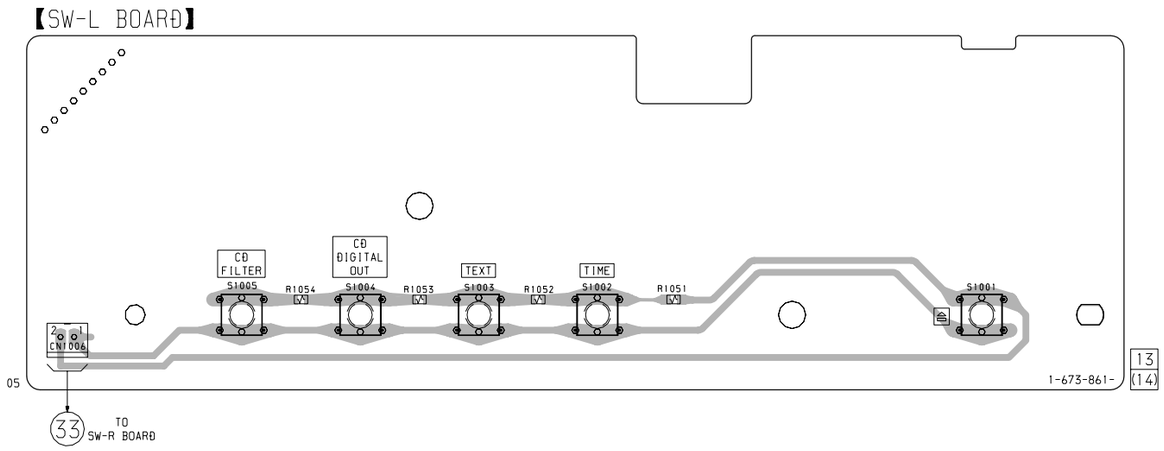
• **Semiconductor Location –DISPLAY Board–**

Ref. No.	Location
D1005	C-2
IC1001	B-4
IC1002	C-9
IC1003	C-8
Q1001	B-8
Q1002	B-8
Q1003	B-7
Q1004	B-7
Q1005	B-7
Q1006	B-7
Q1007	B-6
Q1008	B-6
Q1009	A-5
Q1010	B-3
Q1011	B-2
Q1012	B-2
Q1021	B-2
Q1022	B-2
Q1023	B-3
Q1024	B-3

【DISPLAY BOARD】

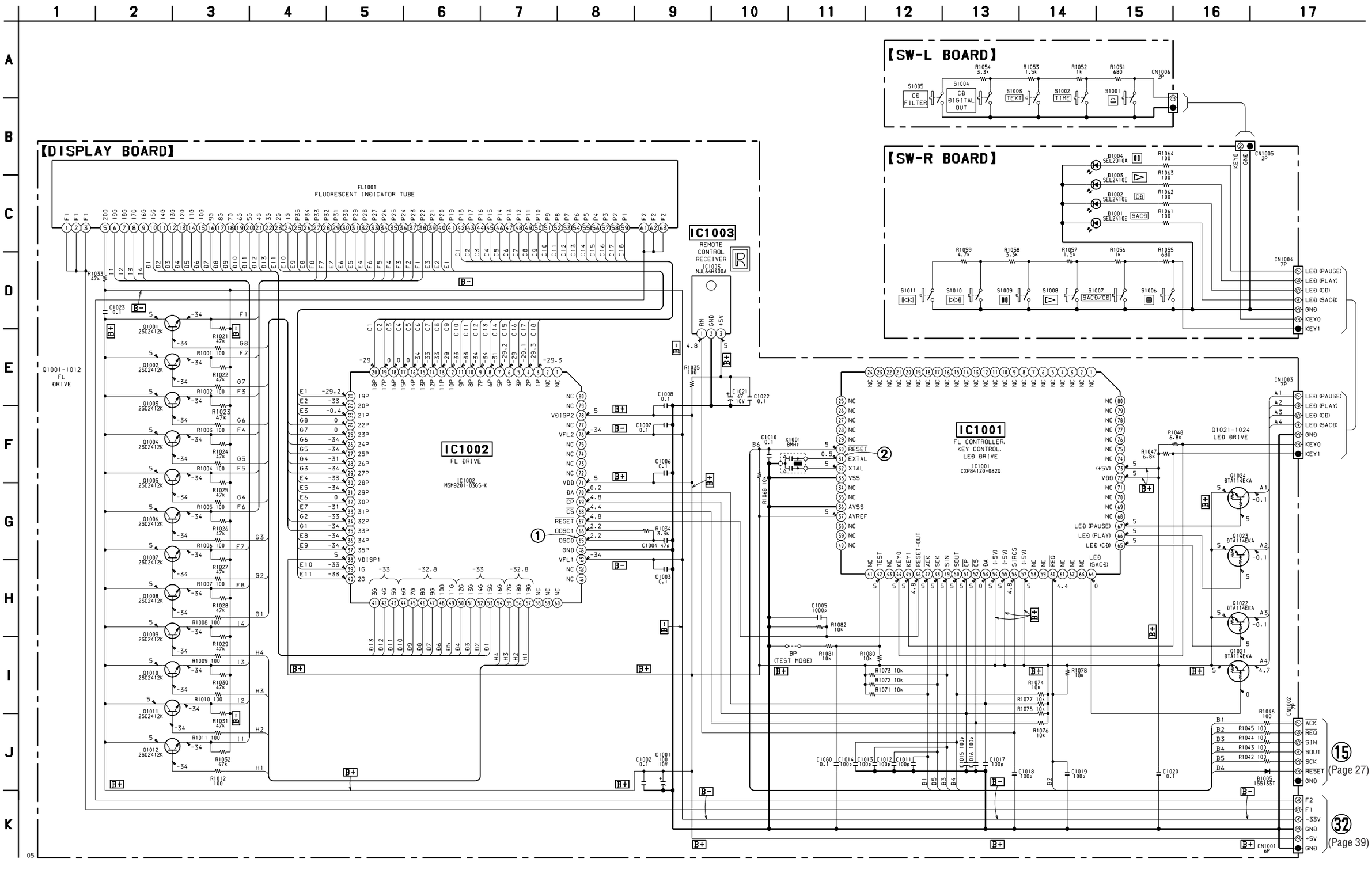


【SW-L BOARD】



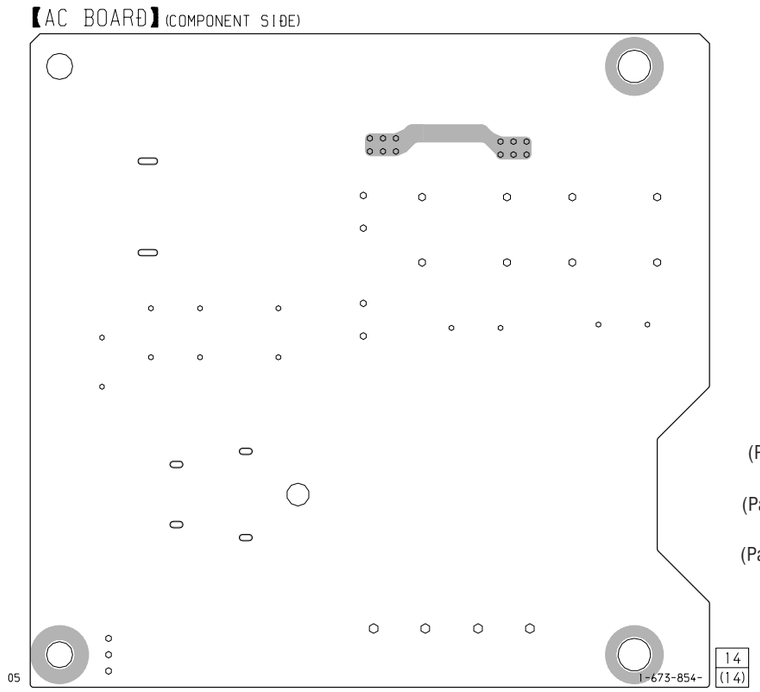
【SW-R BOARD】

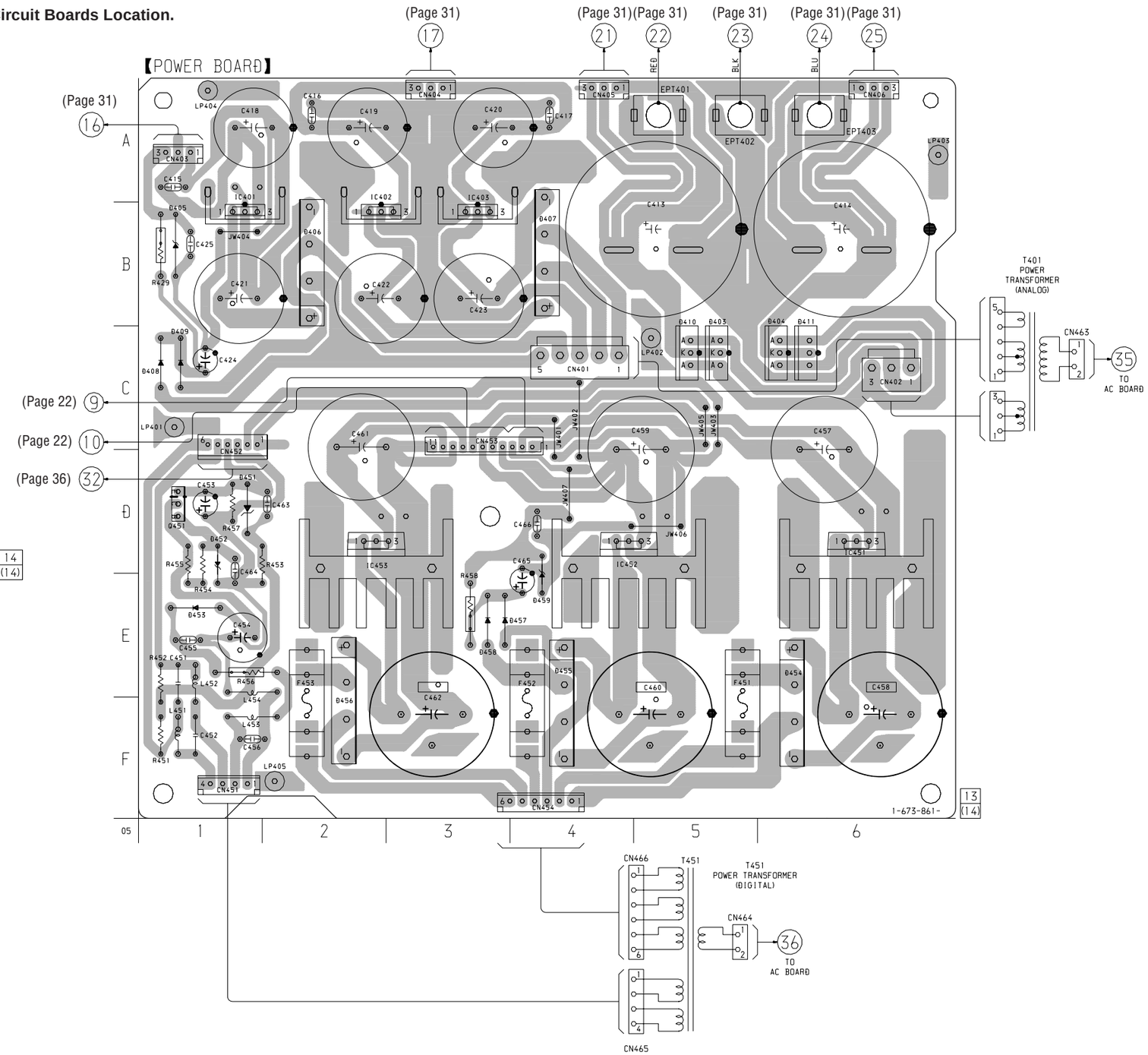
7-21. SCHEMATIC DIAGRAM – DISPLAY/SW-L/SW-R Boards – • See page 40 for Waveforms.

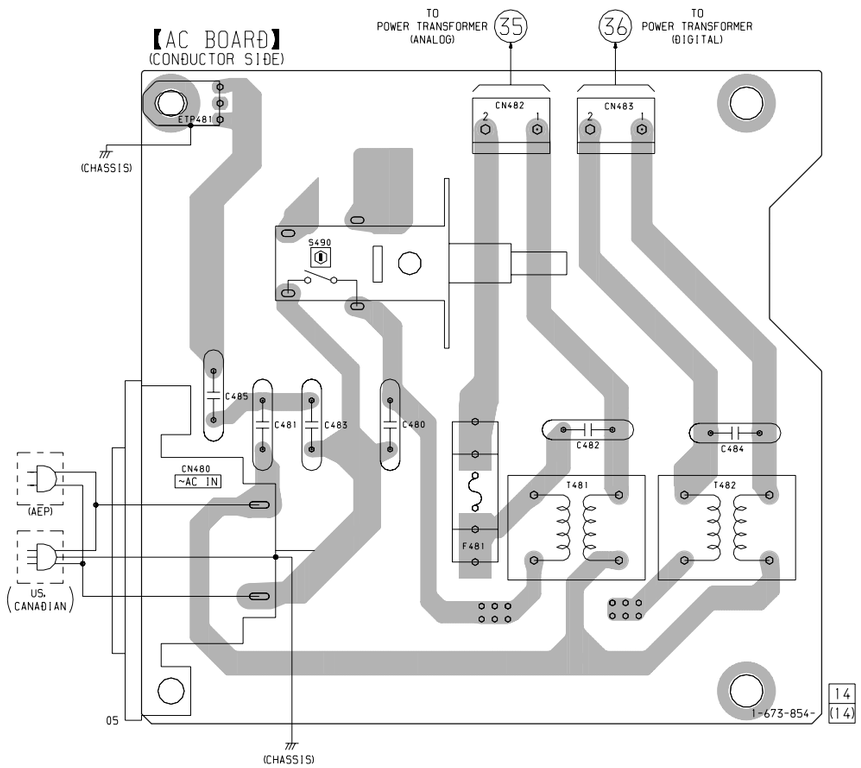


7-22. PRINTED WIRING BOARDS – AC/POWER Boards –

• See page 17 for Circuit Boards Location.



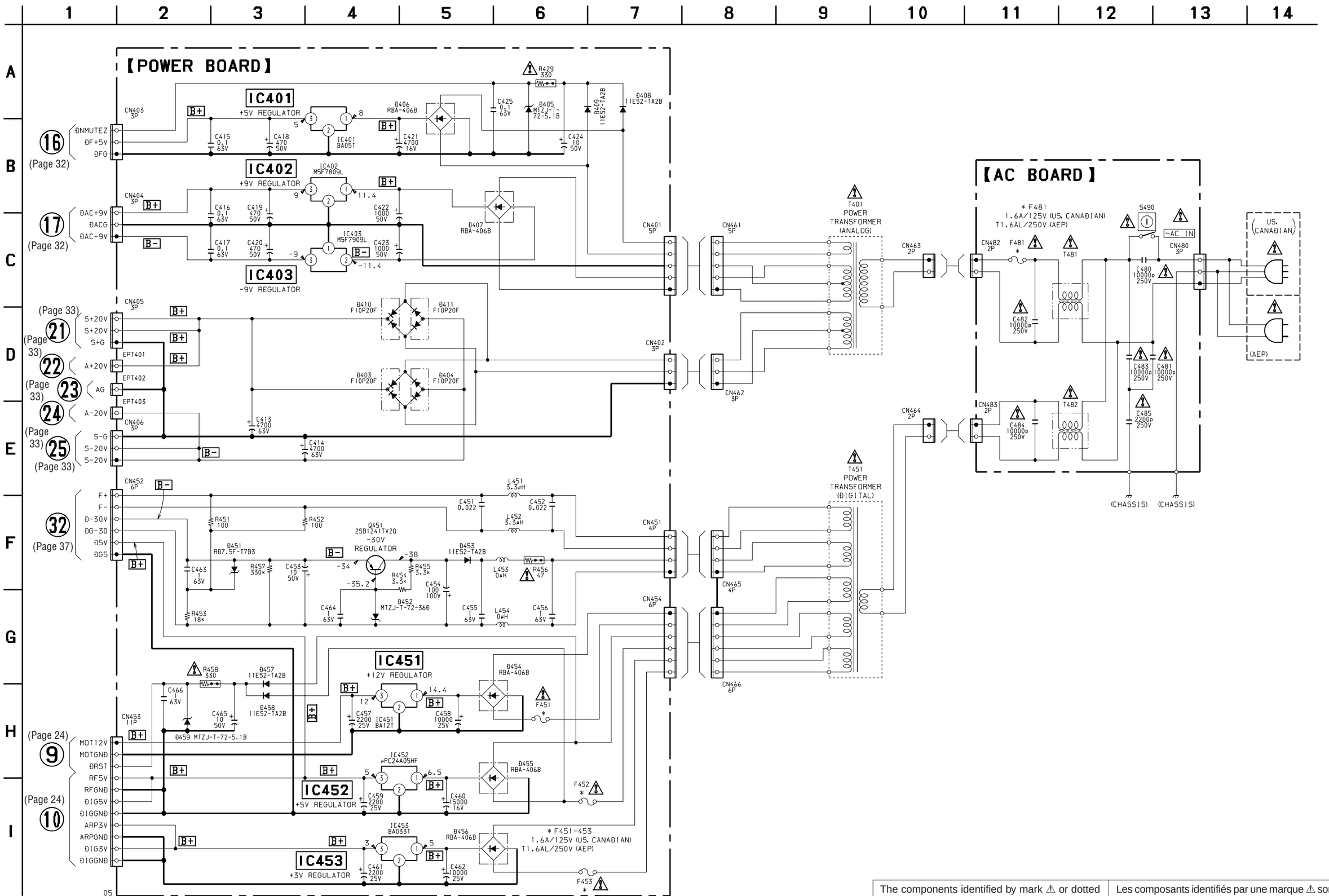




• **Semiconductor Location –POWER Board–**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D403	C-5	D410	C-5	D456	F-2	IC403	B-3
D404	C-6	D411	C-6	D457	E-3	IC451	D-6
D405	B-1	D451	D-1	D458	E-3	IC452	D-4
D406	B-2	D452	D-1	D459	E-4	IC453	D-2
D407	B-4	D453	E-1				
D408	C-1	D454	F-6	IC401	B-1	Q451	D-1
D409	C-1	D455	F-4	IC402	B-2		

7-23. SCHEMATIC DIAGRAM – AC/POWER Boards –

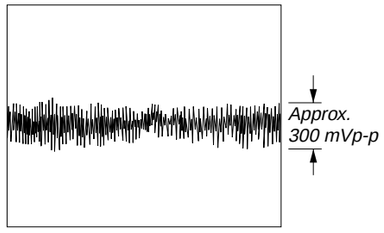


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

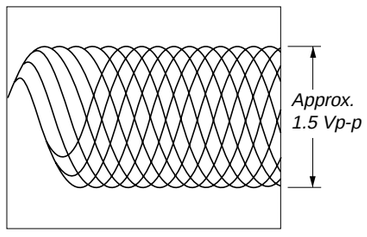
• **Waveforms**

– RF Board –

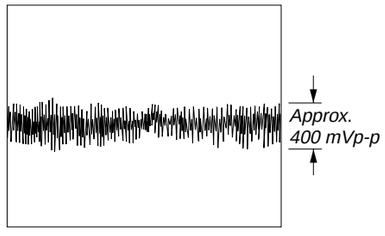
❶ IC001 ㊶ (TE) (SACD PLAY)



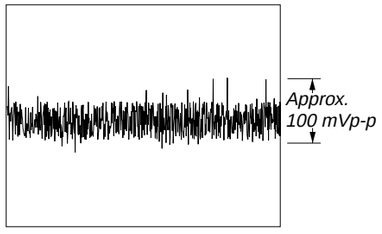
❸ IC001 ㊼ (SIGO) (CD PLAY)



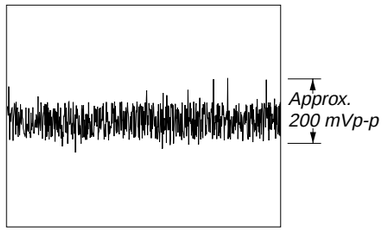
❶ IC001 ㊶ (TE) (CD PLAY)



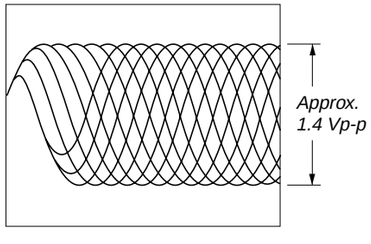
❷ IC001 ㊷ (FE) (SACD PLAY)



❷ IC001 ㊷ (FE) (CD PLAY)

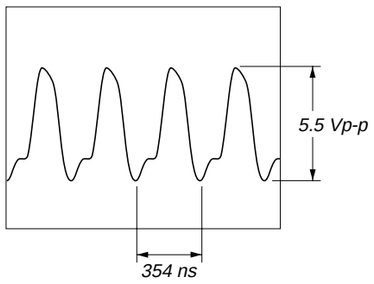


❸ IC001 ㊼ (SIGO) (SACD PLAY)

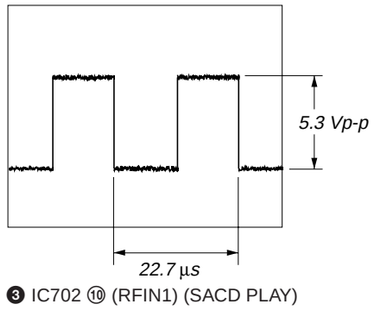


– MAIN Board –

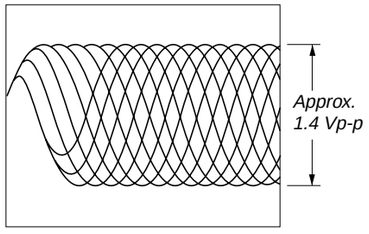
❶ IC702 ㉗ (BCLK)



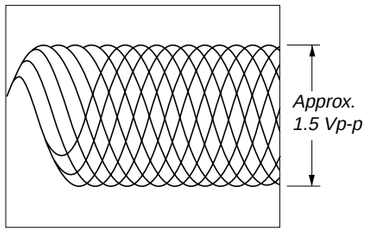
❷ IC702 ㉘ (LRCK)



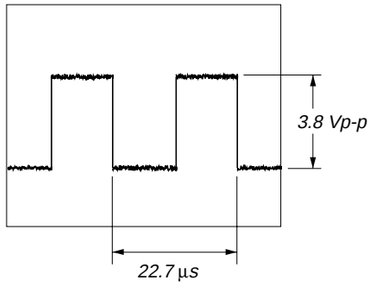
❸ IC702 ⑩ (RFIN1) (SACD PLAY)



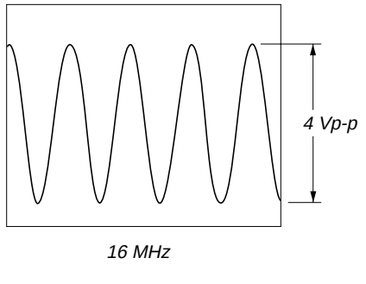
❸ IC702 ⑩ (RFIN1) (CD PLAY)



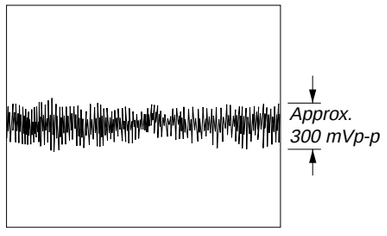
❹ IC703 ⑲ (LRCK)



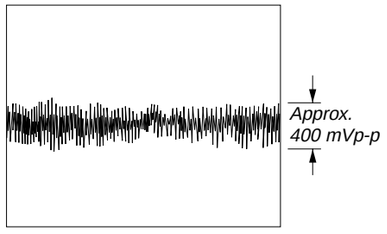
❺ IC701 ㊻ (EXTAL)



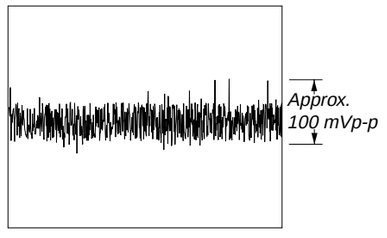
❻ IC512 ㉔ (TE) (SACD PLAY)



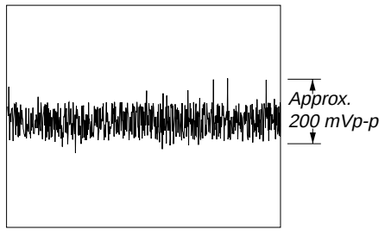
❻ IC512 ㉔ (TE) (CD PLAY)



❼ IC512 ㉖ (FE) (SACD PLAY)

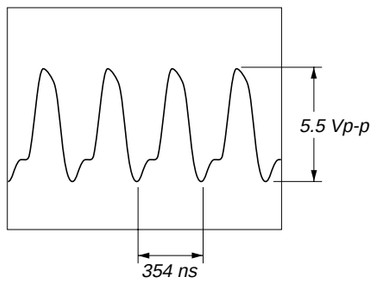


❼ IC512 ㉖ (FE) (CD PLAY)

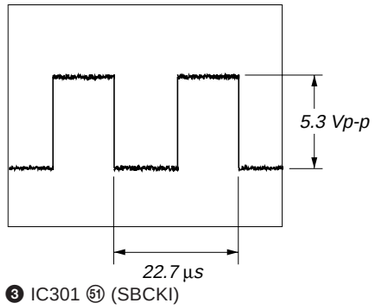


– AUDIO Board –

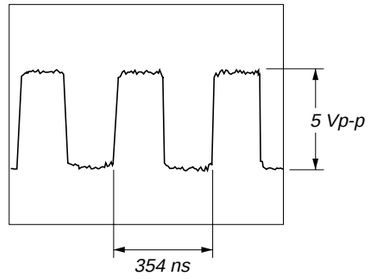
❶ IC301 ㊾ (BCKI)



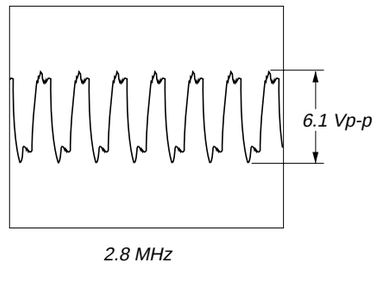
❷ IC301 ㊿ (LRCKI)



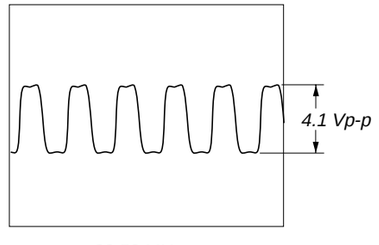
❸ IC301 ㊶ (SBCKI)



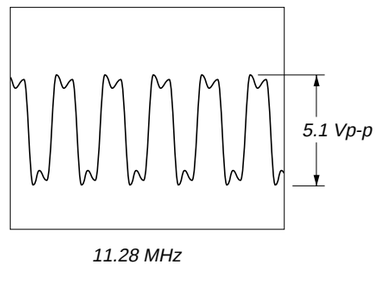
❹ IC301 ⑩ (64FSI), IC302 ㊵ (64FSO)



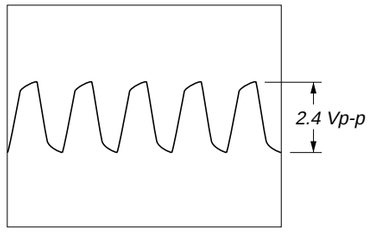
❺ IC301 ⑬ (XIN), IC302 ㉝ LVCK01



❻ IC302 ㉟ (256FSO)

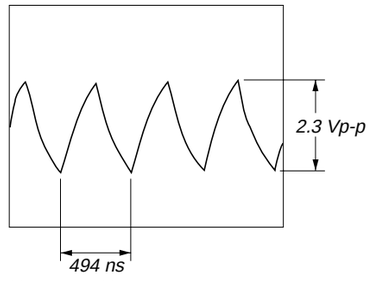


❼ IC302 ⑩ (XIN)

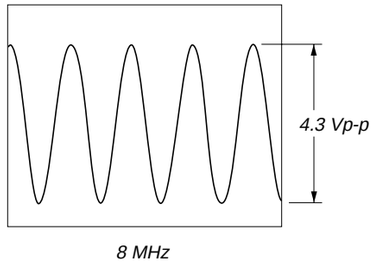


– DISPLAY Board –

❶ IC1002 ㊺ (OSC0)

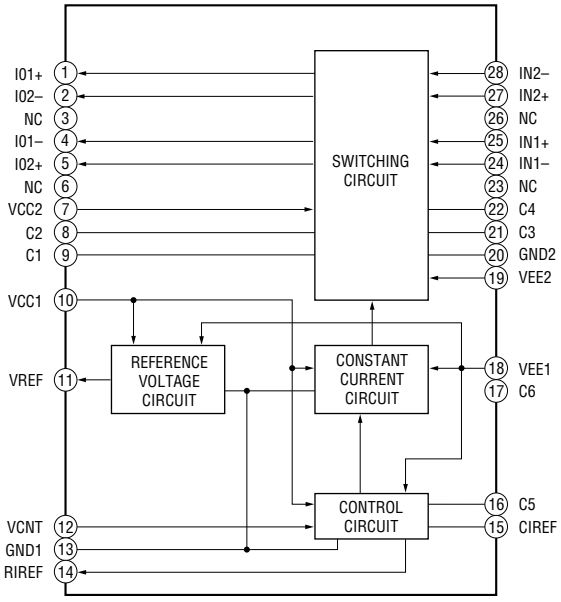


❷ IC1001 ㉛ (EXTAL)

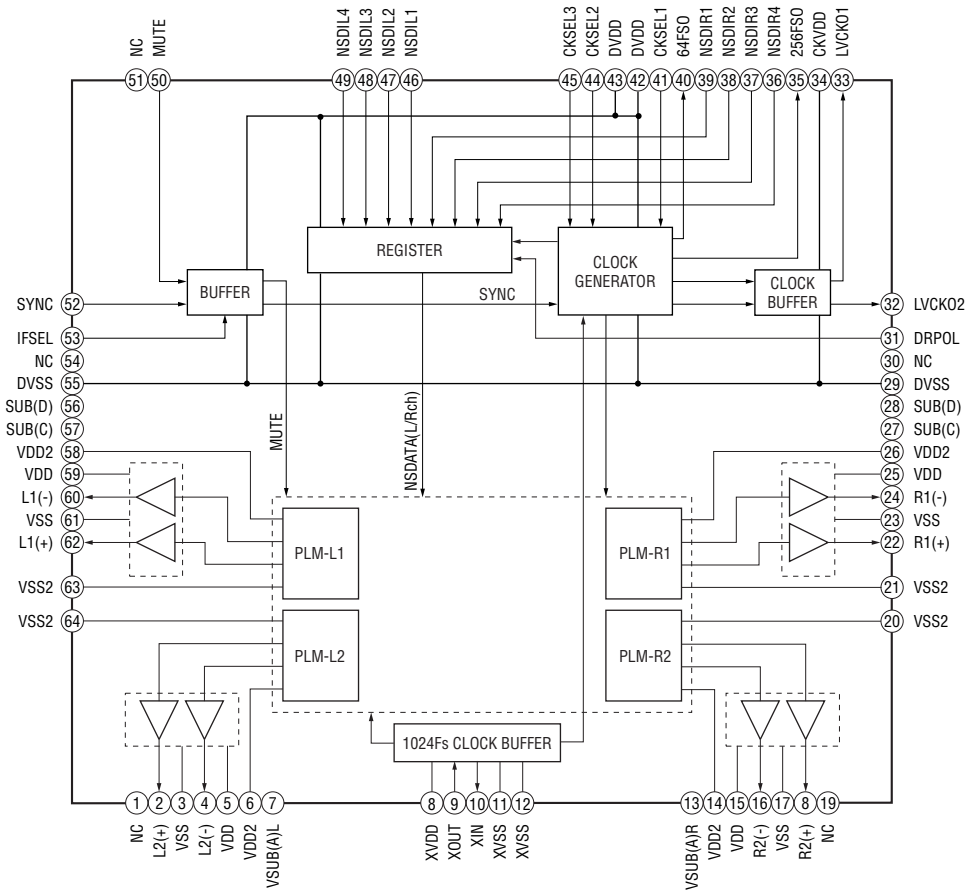


• IC Block Diagrams
– AUDIO Board –

IC101, 201 CXA8042AS

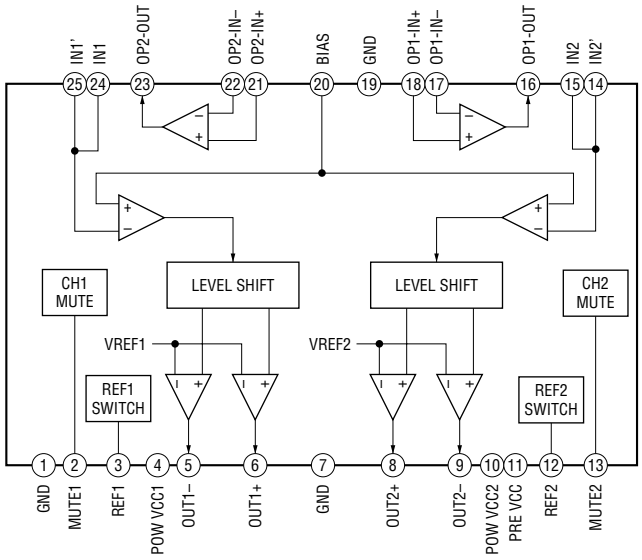


IC302 CXD8594Q

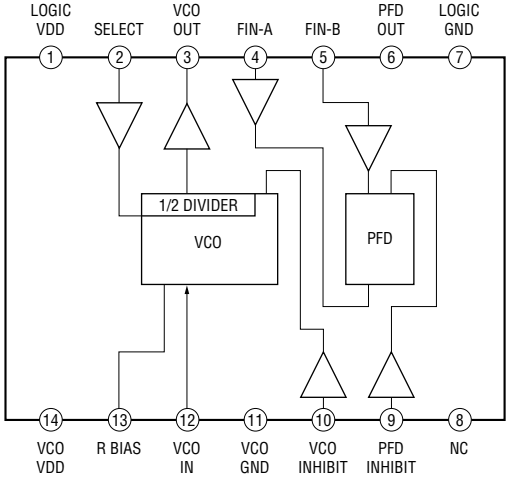


– MAIN Board –

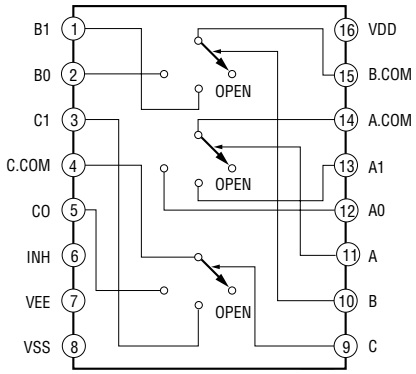
IC503, 505 BA5912AFP-YE2



IC713, 714, 715 TLC2932IPW-E20



IC1501 MC14053BDTR2



7-24. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC701 HD6413002F16 (CPU)

Pin No.	Pin Name	I/O	Description
1	VCC	—	Power supply terminal (+5V)
2	SSSD	I/O	Two-way data bus with the SACD/CD RF AMP (IC001)
3	SSI CLK	O	Serial data transfer clock signal output to the SACD/CD RF AMP (IC001)
4	PWM	O	PWM signal output to the loading motor drive (IC515)
5	JIG CTR	I/O	Two-way data bus with the RS-232C (for check)
6	DF LT	O	Latch signal output to the digital filter (IC301)
7	DCMF LT	O	Not used (open)
8	DATA	O	Serial data output to the digital filter (IC301)
9	SHIFT	O	SHIFT signal output to the digital filter (IC301)
10	X RES0	O	Not used (open)
11	VSS	—	Ground terminal
12	SOUT0	O	Serial data output to the RS-232C (for check)
13	SOUT1	O	Serial data output to the DSD decoder (IC703)
14	SIN0	I	Serial data input from the RS-232C (for check)
15	SIN1	I	Serial data input from the DSD decoder (IC703)
16	SCK0	O	Serial data output to the RS-232C (for check)
17	SCK1	O	Serial data output to the DSD decoder (IC703)
18	D0	I/O	Two-way data bus with the expander (IC712) , flash memory (IC716) and S-RAM (IC718)
19	D1	I/O	
20	D2	I/O	
21	D3	I/O	
22	VSS	—	Ground terminal
23	D4	I/O	Two-way data bus with the expander (IC712) , flash memory (IC716) and S-RAM (IC718)
24	D5	I/O	
25	D6	I/O	
26	D7	I/O	
27	D8	I/O	Two-way data bus with the servo digital signal processor (IC512), ARP (IC702), expander (IC711), flash memory (IC716) and S-RAM (IC717)
28	D9	I/O	
29	D10	I/O	
30	D11	I/O	
31	D12	I/O	
32	D13	I/O	
33	D14	I/O	
34	D15	I/O	
35	VCC	—	Power supply terminal (+5V)
36	A0	O	Address signal output to the ARP (IC702)
37	A1	O	Address signal output to the servo digital signal processor (IC512), ARP (IC702), expander (IC711, 712), flash memory (IC716) and S-RAM (IC717, 718)
38	A2	O	Address signal output to the ARP (IC702), expander (IC711, 712), flash memory (IC716) and S-RAM (IC717, 718)
39	A3	O	
40	A4	O	Address signal output to the ARP (IC702), flash memory (IC716) and S-RAM (IC717, 718)
41	A5	O	
42	A6	O	
43	A7	O	
44	VSS	—	Ground terminal

Pin No.	Pin Name	I/O	Description
45	A8	O	Address signal output to the flash memory (IC716) and S-RAM (IC717, 718)
46	A9	O	
47	A10	O	
48	A11	O	
49	A12	O	
50	A13	O	
51	A14	O	
52	A15	O	
53	A16	O	
54	A17	O	
55	A18	O	Address signal output to the flash memory (IC716)
56	A19	O	Address signal output terminal Not used (open)
57	VSS	—	Ground terminal
58	$\overline{\text{WAIT}}$	I	Wait signal input from the ARP (IC702)
59	EEP SIO	I/O	Two-way data bus with the EEPROM (IC735)
60	EEP SCL	O	clock signal output to the EEPROM (IC735)
61	CLK	O	System clock output terminal Not used (open)
62	$\overline{\text{STBY}}$	I	Hardware standby signal input terminal (fixed at “H”)
63	$\overline{\text{RES}}$	I	System reset signal input from the ARP (IC702) and reset signal generator (IC734) “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
64	NMI	I	NMI signal input terminal Not used (pull up)
65	VSS	—	Ground terminal
66	EXTAL	I	System clock input terminal (16 MHz)
67	XTAL	I	System clock input terminal (16 MHz)
68	VCC	—	Power supply terminal (+5V)
69	$\overline{\text{AS}}$	O	Address strobe signal output terminal Not used (open)
70	$\overline{\text{RD}}$	O	Strobe signal output for data reading to the servo digital signal processor (IC512), ARP (IC702), expander (IC711, 712), flash memory (IC716) and S-RAM (IC717, 718)
71	$\overline{\text{HWR}}$	O	Strobe signal output for data writing to the servo digital signal processor (IC512), ARP (IC702), expander (IC712), flash memory (IC716) and upper byte data writing strobe signal output to the S-RAM (IC717)
72	$\overline{\text{LWR}}$	O	Strobe signal output for data writing to the expander (IC711) and lower byte data writing strobe signal output to the S-RAM (IC716)
73	MD0	I	Input terminal for setting microcomputer operation mode (fixed at “L”)
74	MD1	I	Input terminal for setting microcomputer operation mode (fixed at “L”)
75	MD2	I	Input terminal for setting microcomputer operation mode (fixed at “H”)
76	AVCC	—	Power supply terminal (+5V)
77	VREF	I	Reference voltage input terminal (+5V)
78	AN0	I	Serial data input from the RS-232C (for check)
79	BUSY2	I	BUSY signal input from the servo digital signal processor (IC512)
80	ADS RDY	I	Ready signal input terminal (fixed at “H”)
81	$\overline{\text{IFBSY}}$	I	BUSY signal input from the FL controller (IC1001)
82	PLIN	I	PL signal input from the servo digital signal processor (IC512)
83	AK0	I	Monitor signal input from the expander (IC711)
84	AK1	O	Monitor signal output terminal (fixed at “L”)
85	AK2	O	
86	AVSS	—	Ground terminal

Pin No.	Pin Name	I/O	Description
87	$\overline{\text{ARPINT}}$	I	Interrupt signal input from the ARP (IC702)
88	SDSCS	O	Chip enable signal output to the servo digital signal processor (IC512)
89	SDSACK	I	Chip enable signal input from the servo digital signal processor (IC512)
90	$\overline{\text{CS1}}$	O	Chip enable signal output to the S-RAM (IC717, 718)
91	$\overline{\text{CS0}}$	O	Chip enable signal output to the flash memory (IC716)
92	VSS	—	Ground terminal
93	SHR RDY	I	Ready signal Input from the DSD decoder (IC703)
94	$\overline{\text{IFREQ}}$	O	Request signal output to the FL controller (IC1001)
95	RST OUT	O	System reset signal output to the servo digital signal processor (IC512) and expander (IC711,712)
96	TKC	I	Sled FG signal input from the position sensor (IC008)
97	HFG	I	HFG signal input from the spindle motor drive (IC501)
98	A22	O	Address signal output to the ARP (IC702) and expander (IC711,712)
99	A21	O	
100	A20	O	

• **MAIN BOARD IC711 CXD1095R (EXPANDER)**

Pin No.	Pin Name	I/O	Description
1	AK1	O	Monitor signal output terminal Not used (open)
2	AK2	O	
3	MON3	O	
4	MON4	O	
5	MON5	O	
6	MON6	O	
7	MON7	O	
8	VSS	—	Ground terminal
9	$\overline{\text{WADCE}}$	O	Watermark signal output to the RF AD (IC708)
10	TEST	O	Test signal output to the DSD decoder (IC703) "H":active
11	WMGC0	O	RF gain control for watermark signal output to the RF AD (IC708)
12	WMGC1	O	RF gain control for watermark signal output to the RF AD (IC708)
13	SHR RST	O	Reset signal output to the DSD decoder (IC703)
14	SHR MUTE	O	Mute signal output to the DSD decoder (IC703)
15	SHR LT	O	Latch pulse signal output to the DSD decoder (IC703)
16	—	O	Not used (open)
17	NC	—	Not used (open)
18	FWON	O	FWON signal output to the ARP (IC702)
19	MD2	O	CD-TX mute signal output to the ARP (IC702)
20	MUTE	O	CD-DA mute signal output to the ARP (IC702)
21	ARP RST	O	Reset signal output to the ARP (IC702)
22	DFCT	I	DFCT signal input from the ARP (IC702)
23	VSS	—	Ground terminal
24	VDD	—	Power supply terminal (+5V)
25	NORF	I	NORF signal input from the ARP (IC702)
26	LOCK	I	Lock signal input from the ARP (IC702)
27	FIL SET	I	Filter select signal input from the STANDARD/CUSTOM switch (S173) "L":CUSTOM "H" :STANDARD
28	D0	I/O	Two-way data bus with the CPU (IC701)
29	D1	I/O	
30	D2	I/O	
31	NC	—	Not used (open)
32	NC	—	Not used (open)
33	D3	I/O	Two-way data bus with the CPU (IC701)
34	D4	I/O	
35	D5	I/O	
36	D6	I/O	
37	D7	I/O	
38	XCLR	I	Clear signal input terminal (pull up)
39	XDIS	I	Reset signal input from the ARP (IC702)
40	VSS	—	Ground terminal
41	XWR	I	Strobe signal input from the CPU (IC701)
42	XRD	I	Strobe signal input from the CPU (IC701)
43	XCS	I	Chip enable signal input from the CPU (IC701)

Pin No.	Pin Name	I/O	Description
44	A0	I	Address signal input from the CPU (IC701)
45	A1	I	
46	A2	I	
47	REM CODE	O	Remote category signal output terminal “L”:CD2 “H”:CD1
48	—	I	Not used (open)
49	NC	—	Not used (open)
50	—	I	Not used (open)
51	—	O	Not used (open)
52	DF INIT	O	Initial signal output to the digital filter (IC301)
53	MODE	O	SACD/CD mode signal output to the digital filter (IC301)
54	A FILE	O	Filter signal output terminal
55	VSS	—	Ground terminal
56	VDD	—	Power supply terminal (+5V)
57	A MUTE	O	Audio mute signal output terminal “L”:mute
58	XLR ON	O	Balance signal output terminal
59	ADS LT	O	Not used (open)
60	DCMF INIT	O	Not used (open)
61	DOCTRL	O	Digital control signal output to the select switch (IC732)
62	AK0	O	Monitor signal output to the CPU (IC701)
63	NC	—	Not used (open)
64	NC	—	Not used (open)

• **MAIN BOARD IC712 CXD1095R (EXPANDER)**

Pin No.	Pin Name	I/O	Description
1	STBL DTC	I	Stabilizer detect signal input from the stabilizer detect sensor (IC009)
2	—	I	Not used (open)
3	—	I	Not used (open)
4	LD SW1	I	Loading panel close signal input from the close switch (S004)
5	LD SW0	I	Loading panel open signal input from the open switch (S003)
6	SLD SW1	I	Sled motor (out) signal input from the out switch (S001)
7	SLD SW0	I	Sled motor (in) signal input from the in switch (S001)
8	VSS	—	Ground terminal
9	LOAD	O	Load signal output to the loading motor drive (IC515)
10	UNLOAD	O	Unload signal output to the loading motor drive (IC515)
11	STBL DRV	O	Stabilizer drive signal output terminal
12	SPCTL1	O	Spindle motor control signal output to spindle motor drive (IC501)
13	SPCTL0	O	Spindle motor control signal output terminal Not used (open)
14	SPGC2	O	Spindle motor control signal output to spindle motor drive (IC501)
15	SPGC1	O	Spindle motor control signal output to spindle motor drive (IC501)
16	PIHG	O	PIHG signal output terminal Not used (open)
17	NC	—	Not used (open)
18	SRVRST	O	Servo reset signal output to the servo digital signal processor (IC512)
19	PISEL	O	PI select signal output terminal
20	TEAGC0	O	Tracking error signal output terminal
21	TEAGC1	O	Tracking error signal output terminal
22	ERROR	I	Error signal input from the servo digital signal processor (IC512)
23	VSS	—	Ground terminal
24	VDD	—	Power supply terminal (+5V)
25	FON	I	FON signal input from the servo digital signal processor (IC512)
26	TIUNLK	I	Tilt motor control signal input from the tilt motor drive (IC505)
27	—	I	Not used (open)
28	D0	I/O	Two-way data bus with the CPU (IC701)
29	D1	I/O	
30	D2	I/O	
31	NC	—	Not used (open)
32	NC	—	Not used (open)
33	D3	I/O	Two-way data bus with the CPU (IC701)
34	D4	I/O	
35	D5	I/O	
36	D6	I/O	
37	D7	I/O	
38	XCLR	I	Clear signal input terminal (pull up)
39	XDIS	I	Reset signal input from the ARP (IC702)
40	VSS	—	Ground terminal
41	XWR	I	Strobe signal input from the CPU (IC701)
42	XRD	I	Strobe signal input from the CPU (IC701)
43	XCS	I	Chip enable signal input from the CPU (IC701)
44	A0	I	Address signal input from the CPU (IC701)
45	A1	I	
46	A2	I	

Pin No.	Pin Name	I/O	Description
47	—	I	Not used (open)
48	—	I	Not used (open)
49	NC	—	Not used (open)
50	FCSDWN	I/O	Two-way data bus with the SACD/CD RF AMP (IC001)
51	SDPREK	O	SDPREK signal output to the sled motor drive (IC503)
52	$\overline{\text{SACDLDON}}$	O	Load signal output to the SACD/CD RF AMP (IC001)
53	TILT OUT	O	Tilt out signal output to the tilt motor drive (IC505)
54	A ERR	O	Not used (open)
55	VSS	—	Ground terminal
56	VDD	—	Power supply terminal (+5V)
57	TILT/H	O	Tilt error signal output to the tilt error AMP (IC004)
58	SLDDLY	O	SLDDLY signal output to the sled motor drive (IC503)
59	SDEN	O	SDEN signal output to the SACD/CD RF AMP (IC001)
60	SL MUTE	O	Mute signal output to the sled motor drive (IC503)
61	LM MUTE	O	Mute signal output terminal Not used (open)
62	CHUCK	I	Not used (open)
63	NC	—	Not used (open)
64	NC	—	Not used (open)

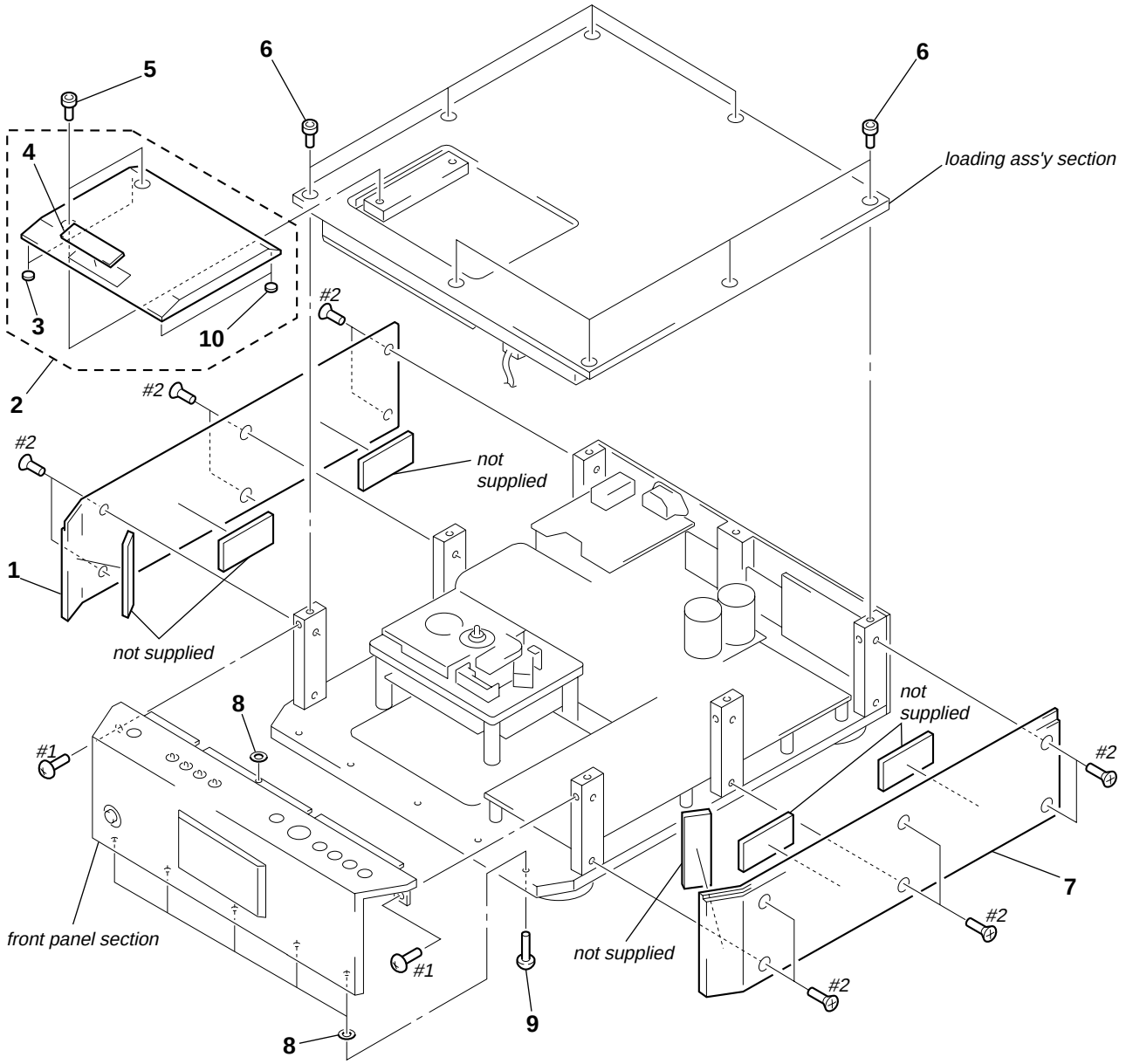
SECTION 8
EXPLODED VIEWS

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

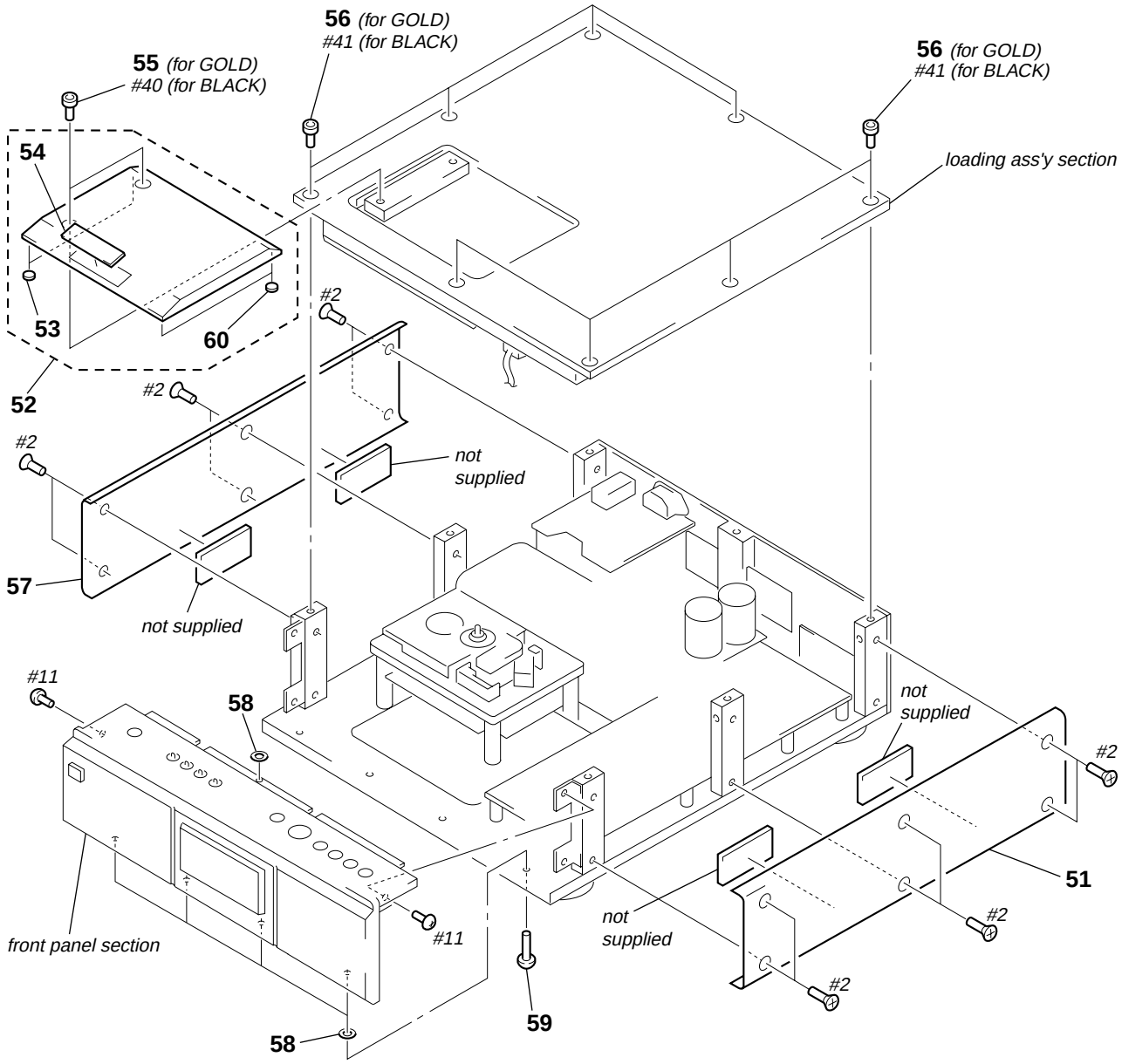
Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

(1) GENERAL (SCD-1)



Ref. No.	Part No.	Description	Remark
1	4-215-794-01	PLATE (L), SIDE	
2	X-4951-357-1	PANEL (LOADING) ASSY	
3	4-218-606-01	CUSHION (LD)	
4	4-216-860-01	EMBLEM (SACD)	
5	4-216-431-01	BOLT (M5X10), HEXAGON SOCKET	
6	4-216-429-01	BOLT (M4X8), HEXAGON SOCKET	
7	4-215-795-01	PLATE (R), SIDE	
* 8	2-127-516-01	TAPE (TV LOCK HANDLE)	
9	4-968-977-11	SCREW (3X10), +BVTP	
10	4-218-606-11	CUSHION (LD)	

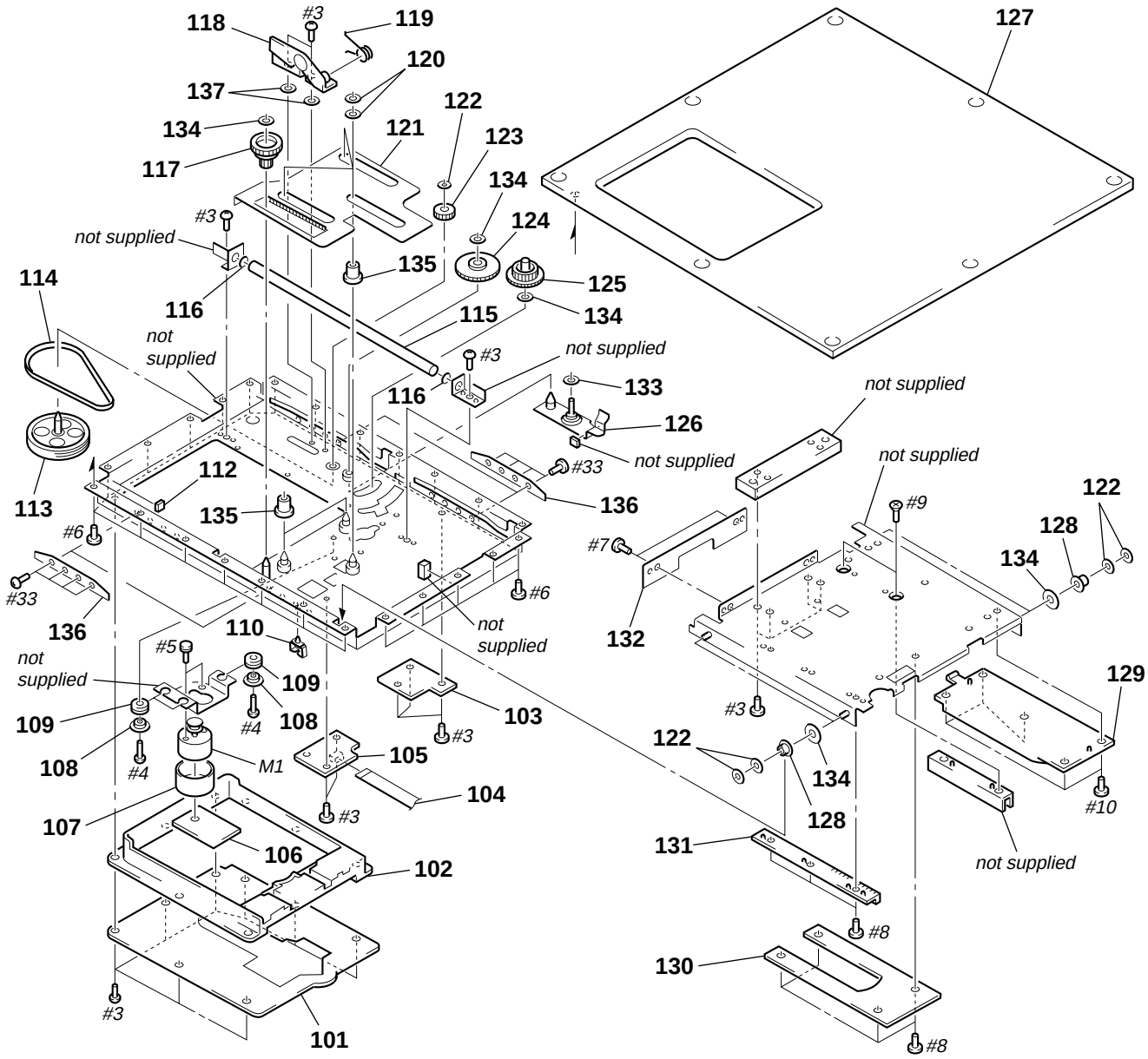
(2) GENERAL (SCD-777ES)



Ref. No.	Part No.	Description	Remark
51	4-221-849-01	PLATE (L), SIDE (GOLD)	
51	4-221-849-11	PLATE (L), SIDE (BLACK)	
52	X-4951-857-1	PANEL (LOADING) ASSY (GOLD)	
52	X-4951-858-1	PANEL (LOADING) ASSY (BLACK)	
53	4-218-606-01	CUSHION (LD)	
54	4-216-860-21	EMBLEM (SACD) (SCD-777ES: BLACK)	
54	4-216-860-11	EMBLEM (SACD) (SCD-777ES: GOLD)	

Ref. No.	Part No.	Description	Remark
55	4-216-431-01	BOLT (M5X10), HEXAGON SOCKET (for GOLD)	
56	4-216-429-01	BOLT (M4X8), HEXAGON SOCKET (for GOLD)	
57	4-221-850-01	PLATE (R), SIDE (GOLD)	
57	4-221-850-11	PLATE (R), SIDE (BLACK)	
* 58	2-127-516-01	TAPE (TV LOCK HANDLE)	
59	4-968-977-11	SCREW (3X10), +BVTP	
60	4-218-606-11	CUSHION (LD)	

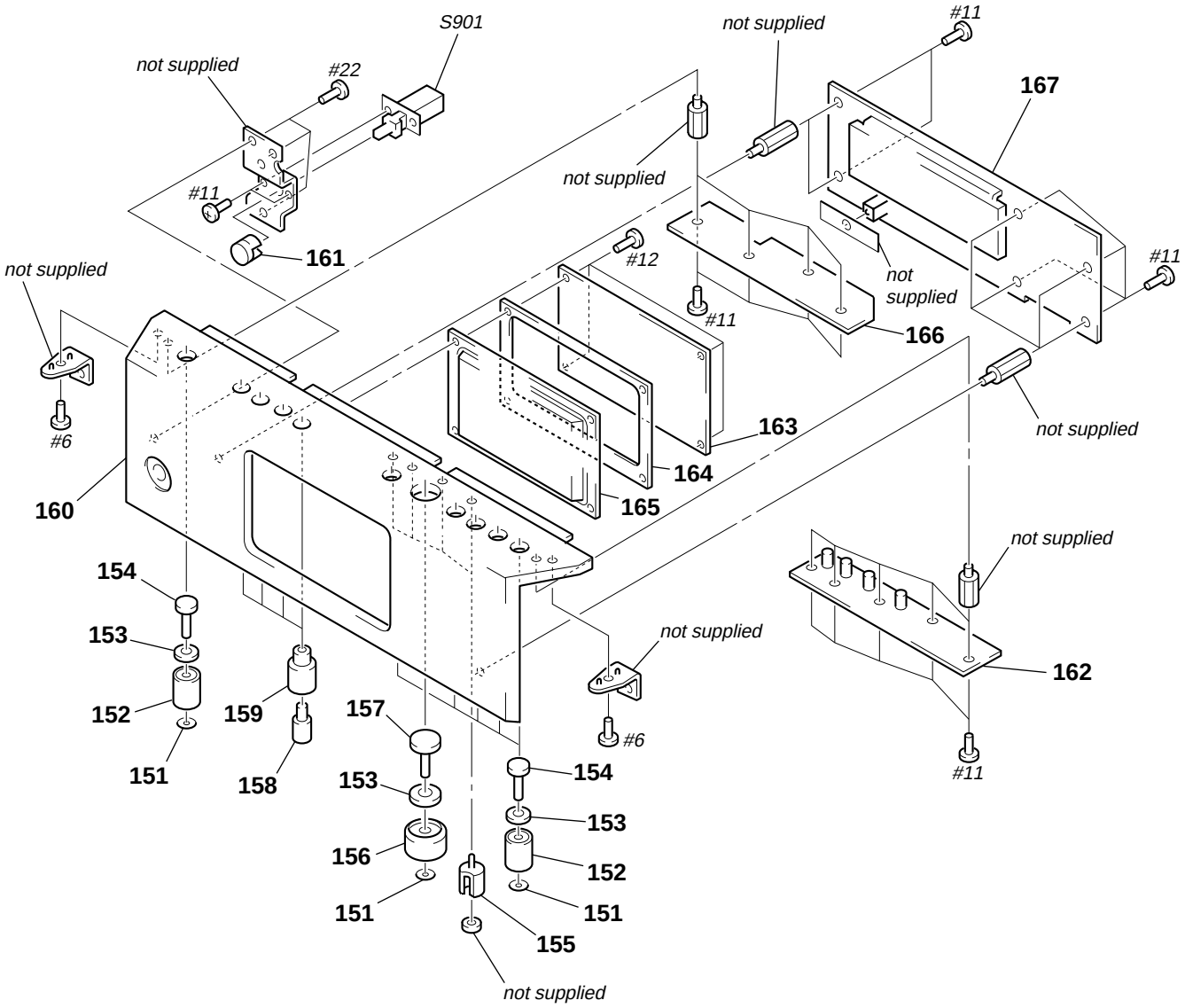
(3) LOADING ASSY SECTION



Ref. No.	Part No.	Description	Remark
101	4-215-791-01	PLATE (B), ORNAMENTAL	
102	4-215-767-01	PLATE (A), ORNAMENTAL	
103	1-673-865-12	LOAD-SW BOARD	
104	1-790-587-11	WIRE (FLAT TYPE) (5 CORE)	
105	1-673-867-12	LOAD-CN BOARD	
106	1-673-864-12	LOAD-MOT BOARD	
107	4-218-604-01	DAMPER (MOTOR)	
* 108	4-928-026-01	COLLAR (B)	
* 109	4-888-798-00	BUSHING, RUBBER	
* 110	3-694-225-01	CLAMP	
112	3-011-999-01	RUBBER (B)	
113	X-4945-209-1	PULLEY (FIRST) ASSY	
114	4-968-905-01	BELT (CDM)	
115	4-215-762-01	SHAFT (MAIN)	
116	3-910-695-01	FELT	
117	4-215-775-01	GEAR (SHUTTER)	
118	X-4951-127-2	LEVER (STOPPER) ASSY	
119	4-217-469-01	SPRING (STOPPER)	
120	4-220-666-01	WASHER (SHUTTER)	
121	4-215-771-01	SHUTTER, SLIDE	

Ref. No.	Part No.	Description	Remark
122	3-325-697-01	WASHER	
123	4-968-898-01	GEAR (FIRST)	
124	4-968-899-01	GEAR (MIDLE)	
125	4-215-774-01	GEAR (SWING)	
126	X-4950-850-3	ARM (SWING) ASSY	
127	4-215-780-03	CASE (TOP PLATE) (SCD-1)	
127	4-221-848-01	PLATE, TOP (SCD-777ES: GOLD)	
127	4-221-848-11	PLATE, TOP (SCD-777ES: BLACK)	
128	4-215-766-04	ROLLER (SLIDE)	
129	4-215-769-01	RACK, J	
130	1-673-866-12	STB BOARD	
131	4-215-770-01	RACK, I	
132	4-215-792-02	PLATE (C), ORNAMENTAL	
133	3-701-445-11	WASHER, 7	
134	3-363-191-01	WASHER (BA)	
135	4-220-665-01	ROLLER (SHUTTER)	
136	4-221-221-03	RAIL, GUIDE	
137	4-949-302-51	WASHER	
M1	A-4672-674-A	MOTOR ASSY (LOADING)	

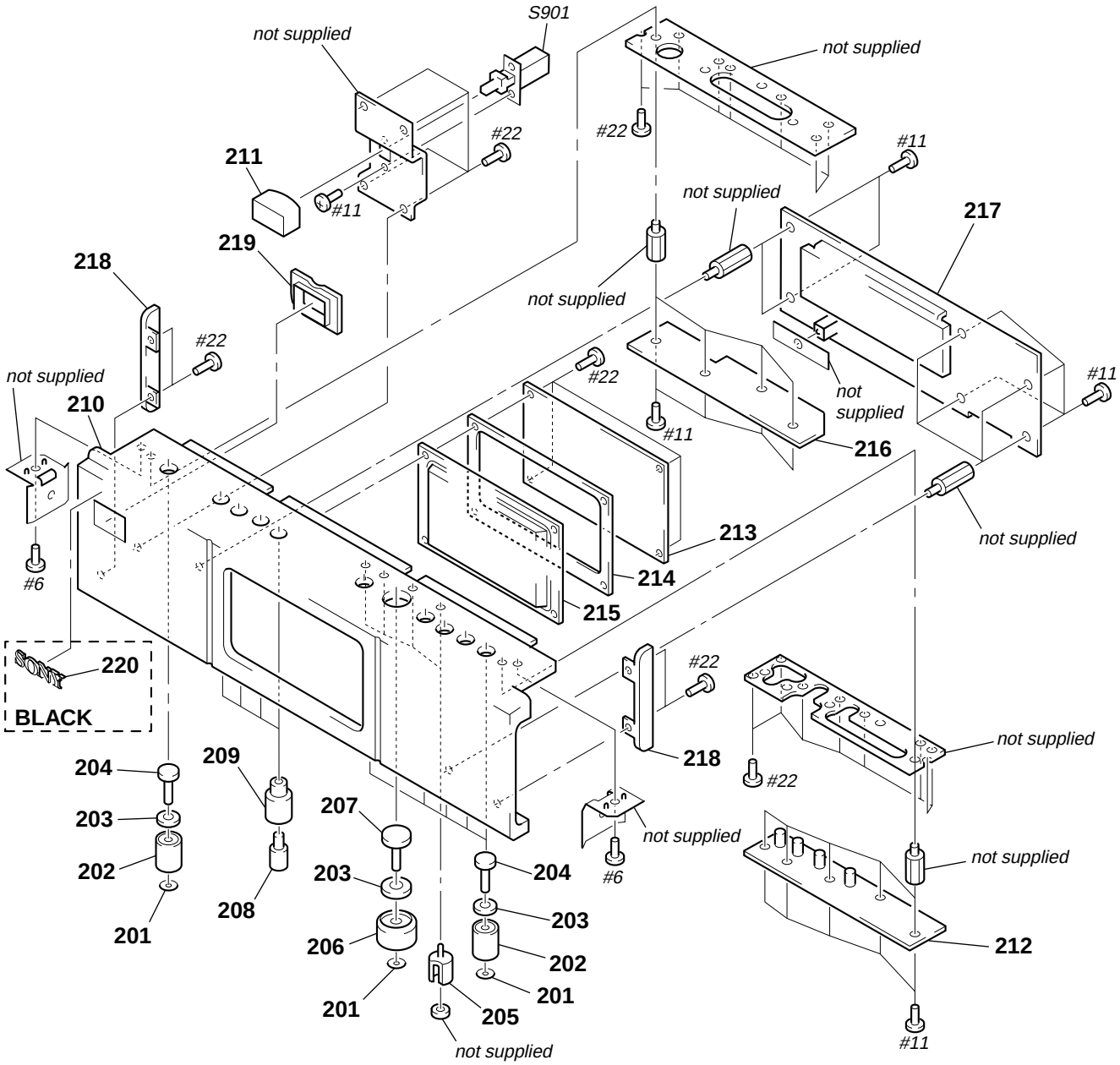
(4) FRONT PANEL SECTION (SCD-1)



Ref. No.	Part No.	Description	Remark
151	4-947-420-01	RING (DIA. 2.53), RETAINING	
152	4-215-806-01	GUIDE (OPEN/CLOSE)	
153	4-216-427-02	CUSHION (BUTTON)	
154	X-4950-852-1	BUTTON (O/C) ASSY	
* 155	4-900-228-01	INDICATOR (MONITOR)	
156	4-215-807-01	GUIDE (PLAY)	
157	X-4950-853-1	BUTTON (PLAY) ASSY	
158	4-211-455-01	BUTTON (LED)	
159	4-215-789-02	GUIDE (GOMA KEY) (SCD-1)	

Ref. No.	Part No.	Description	Remark
160	4-215-810-01	PANEL, FRONT	
161	X-4950-854-1	BUTTON ASSY, POWER	
162	1-673-863-12	SW-R BOARD	
163	4-216-430-04	PLATE, HALF MIRROR	
164	4-218-605-01	SPACER (INDICATION PLATE)	
165	4-215-803-01	PLATE, INDICATION	
166	1-673-862-13	SW-L BOARD	
167	A-4724-528-A	DISPLAY BOARD, COMPLETE	
S901	1-771-685-11	SWITCH, PUSH (CONTROL BLOCK)	

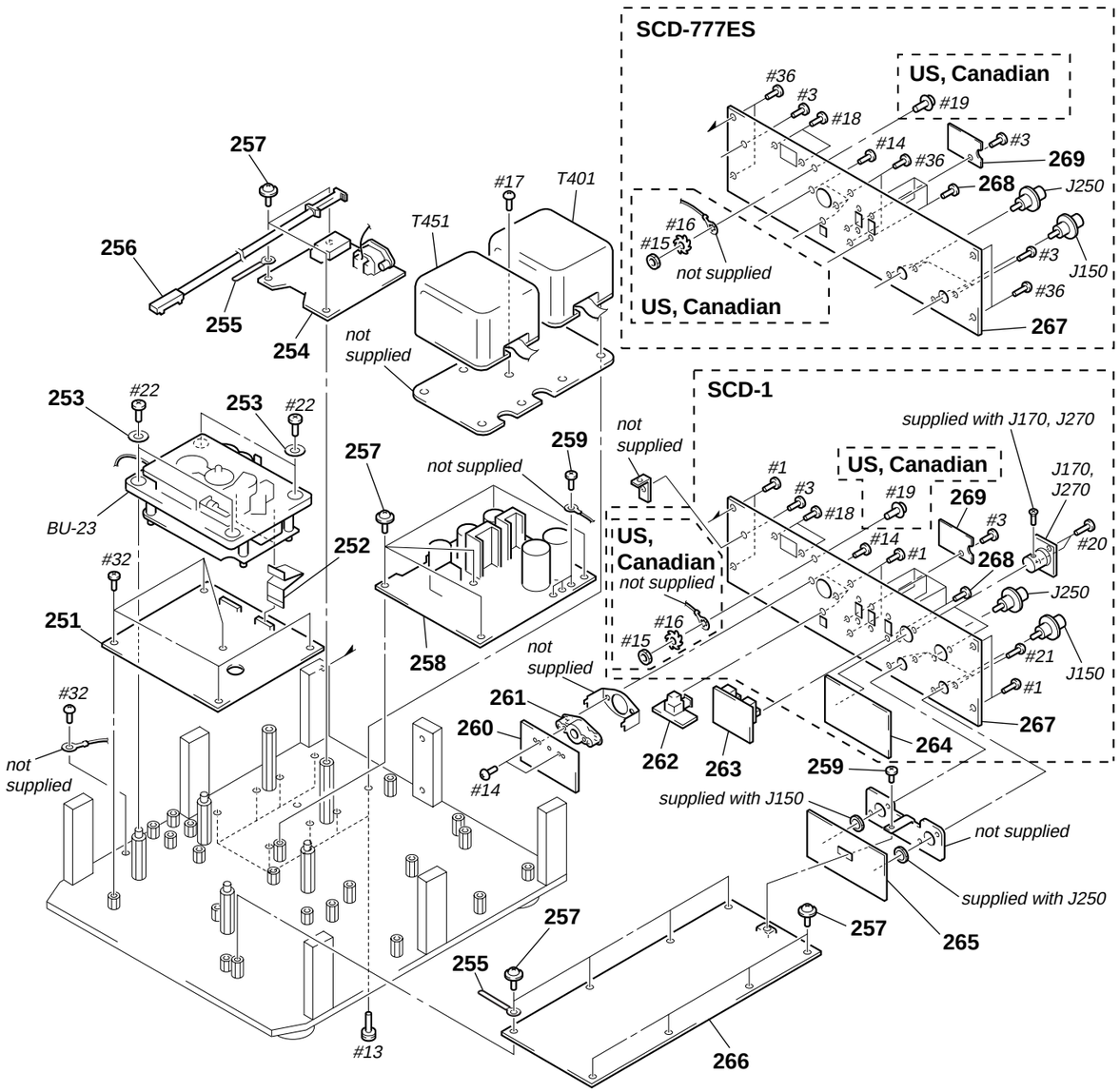
(5) FRONT PANEL SECTION (SCD-777ES)



Ref. No.	Part No.	Description	Remark
201	4-947-420-01	RING (DIA. 2.53), RETAINING	
202	4-215-806-01	GUIDE (OPEN/CLOSE)	
203	4-216-427-02	CUSHION (BUTTON)	
204	X-4951-861-1	BUTTON (O/C) ASSY (GOLD)	
204	X-4951-862-1	BUTTON (O/C) ASSY (BLACK)	
* 205	4-900-228-01	INDICATOR (MONITOR)	
206	4-215-807-01	GUIDE (PLAY)	
207	X-4951-863-1	BUTTON (PLAY) ASSY (GOLD)	
207	X-4951-864-1	BUTTON (PLAY) ASSY (BLACK)	
208	4-211-455-01	BUTTON (LED)	
209	4-215-789-11	GUIDE (GOMA KEY) (GOLD)	
209	4-215-789-21	GUIDE (GOMA KEY) (BLACK)	
210	4-221-839-01	PANEL, FRONT (GOLD)	
210	4-221-839-31	PANEL, FRONT (BLACK)	
211	X-4950-227-1	BUTTON ASSY, POWER (GOLD)	

Ref. No.	Part No.	Description	Remark
211	X-4950-228-1	BUTTON ASSY, POWER (BLACK)	
* 212	1-673-863-12	SW-R BOARD	
213	4-221-842-02	PLATE, HALF MIRROR (for GOLD)	
213	4-221-842-11	PLATE, HALF MIRROR (for BLACK)	
214	4-221-843-01	SPACER (DISPLAY)	
215	4-221-841-01	PLATE, INDICATION (for BLACK)	
215	4-221-841-11	PLATE, INDICATION (for GOLD)	
216	1-673-862-13	SW-L BOARD	
217	A-4724-528-A	DISPLAY BOARD, COMPLETE	
218	4-221-840-01	PLATE (PANEL), SIDE (GOLD)	
218	4-221-840-11	PLATE (PANEL), SIDE (BLACK)	
219	4-921-415-05	ESCUTCHEON, POWER KNOB (BLACK)	
219	4-921-415-14	ESCUTCHEON, POWER KNOB (GOLD)	
220	4-942-568-41	EMBLEM (NO. 5), SONY (for BLACK)	
S901	1-771-685-11	SWITCH, PUSH (CONTROL BLOCK)	

(6) MAIN SECTION

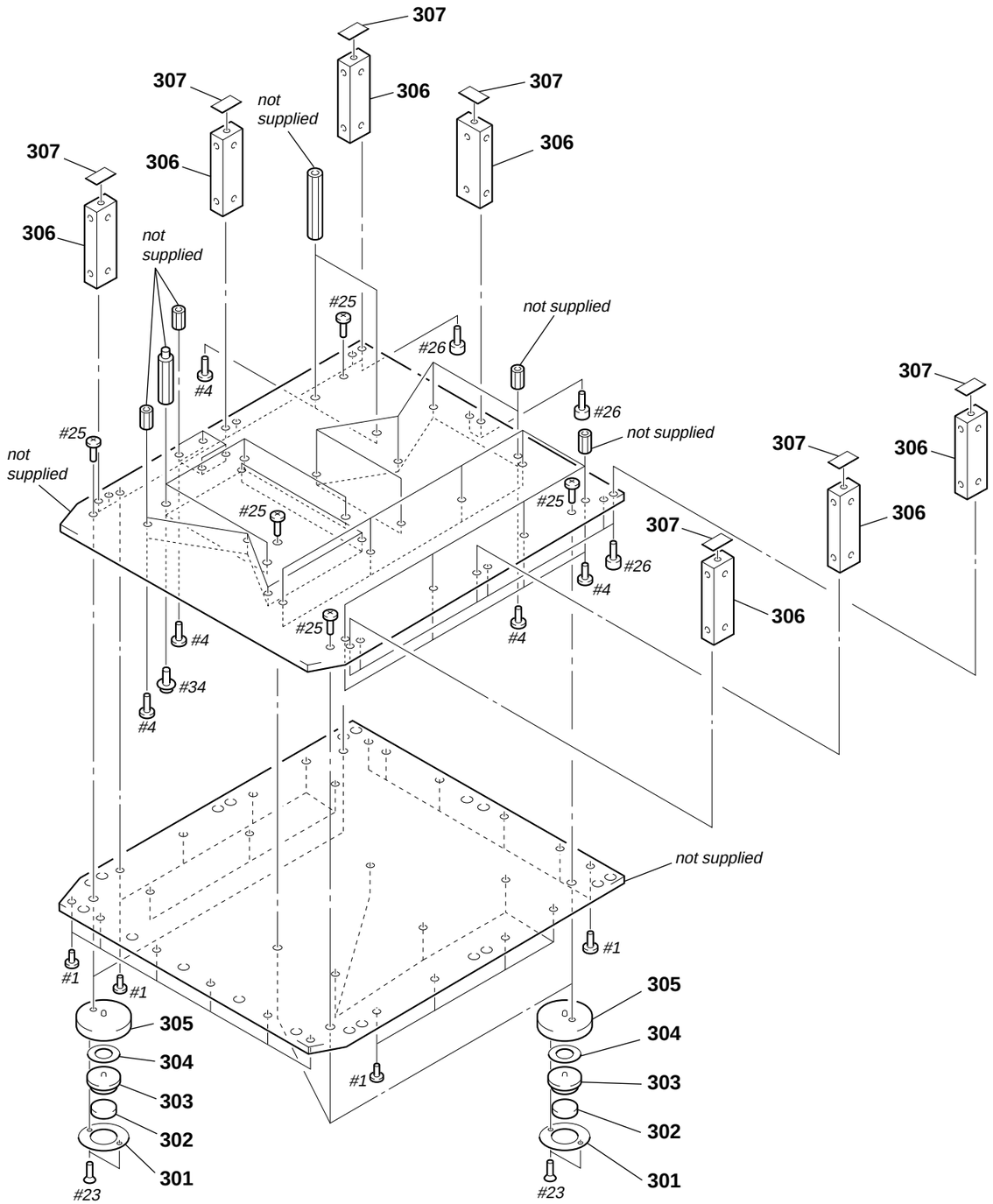


Ref. No.	Part No.	Description	Remark
251	A-4724-951-A	MAIN BOARD, COMPLETE	
252	1-790-659-11	WIRE (FLAT TYPE) (26 CORE)	
253	4-221-249-01	WASHER	
254	1-673-854-14	AC BOARD	
255	3-701-822-01	HOLDER, WIRE	
256	1-771-685-21	SWITCH, PUSH (CONTROL BLOCK) (WIRE)	
257	X-4908-910-1	SCREW ASSY (+ BVTT)	
258	A-4724-529-A	POWER BOARD, COMPLETE	
* 259	4-931-964-01	SCREW (M4X6)	
260	A-4724-524-A	COAX BOARD, COMPLETE	
* 261	4-913-152-01	ESCUTCHEON, D/O	
262	1-673-858-14	OPT BOARD	
263	1-673-859-14	SW BOARD	
264	A-4724-931-A	BAL BOARD, COMPLETE (SCD-1)	
265	1-673-855-14	PIN BOARD	
266	A-4724-518-A	AUDIO BOARD, COMPLETE (SCD-1)	
266	A-4724-953-A	AUDIO BOARD, COMPLETE (SCD-777ES)	
267	4-215-784-11	PANEL, BACK (SCD-1: US, Canadian)	
267	4-215-784-21	PANEL, BACK (SCD-1: AEP)	
267	4-221-854-01	PANEL, BACK (SCD-777ES: AEP)	
267	4-221-854-11	PANEL, BACK (SCD-777ES: US, Canadian)	
268	3-701-428-11	SCREW, +B 2.6 CLAW	
269	4-221-222-11	BRACKET (FILTER) (SCD-777ES)	
269	4-221-222-01	BRACKET (FILTER) (SCD-1)	
J150	1-568-918-31	JACK, PIN 1P (LINE OUT (ANALOG) L) (SCD-777ES)	

Ref. No.	Part No.	Description	Remark
J150	1-568-918-31	JACK, PIN 1P (LINE OUT (ANALOG) UNBALANCED L) (SCD-1)	
J170	1-563-030-21	CONNECTOR (RECEPTACLE) 3P (LINE OUT (ANALOG) BALANCED L) (SCD-1)	
J250	1-568-918-31	JACK, PIN 1P (LINE OUT (ANALOG) UNBALANCED R) (SCD-1)	
J250	1-568-918-41	JACK, PIN 1P (LINE OUT (ANALOG) R) (SCD-777ES)	
J270	1-563-030-21	CONNECTOR (RECEPTACLE) 3P (LINE OUT (ANALOG) BALANCED R) (SCD-1)	
⚠T401	1-435-108-11	TRANSFORMER, POWER (ANALOG) (SCD-777ES: AEP)	
⚠T401	1-435-110-11	TRANSFORMER, POWER (ANALOG) (SCD-777ES: US, Canadian)	
⚠T401	1-435-114-11	TRANSFORMER, POWER (ANALOG) (SCD-1: AEP)	
⚠T401	1-435-116-11	TRANSFORMER, POWER (ANALOG) (SCD-1: US, Canadian)	
⚠T451	1-435-109-11	TRANSFORMER, POWER (DIGITAL) (SCD-777ES: AEP)	
⚠T451	1-435-111-11	TRANSFORMER, POWER (DIGITAL) (SCD-777ES: US, Canadian)	
⚠T451	1-435-115-11	TRANSFORMER, POWER (DIGITAL) (SCD-1: AEP)	
⚠T451	1-435-117-11	TRANSFORMER, POWER (DIGITAL) (SCD-1: US, Canadian)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

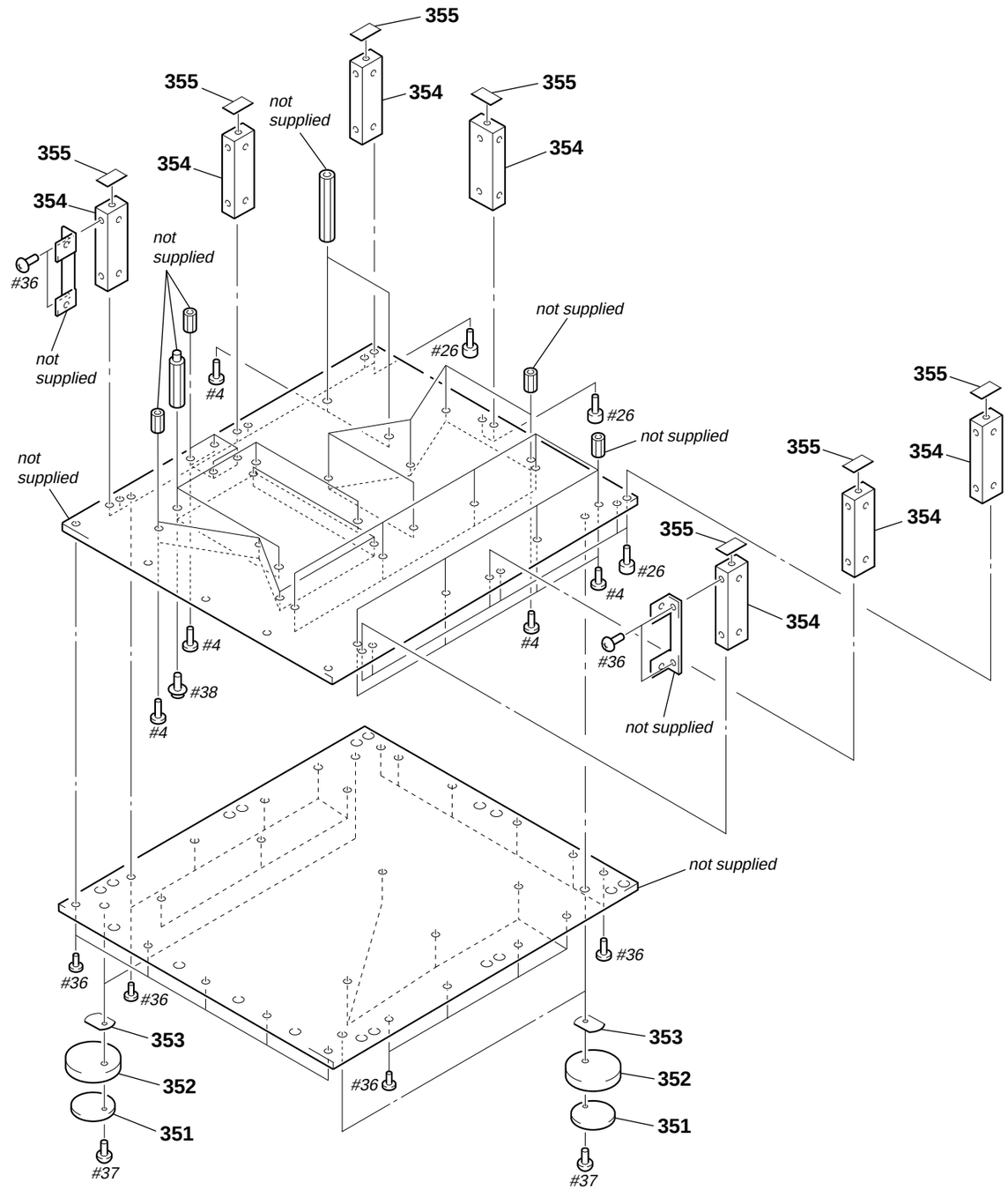
(7) CHASSIS SECTION (SCD-1)



Ref. No.	Part No.	Description	Remark
301	4-987-505-02	BRACEKT (FOOT)	
302	4-987-507-02	CUSHION (D26)	
303	4-987-506-03	FOOT (PIN)	
304	4-987-508-01	CUSHION (D31)	

Ref. No.	Part No.	Description	Remark
305	4-987-504-02	FOOT (BASE)	
306	X-4951-689-1	SUPPORT ASSY	
307	4-222-891-01	SHEET	

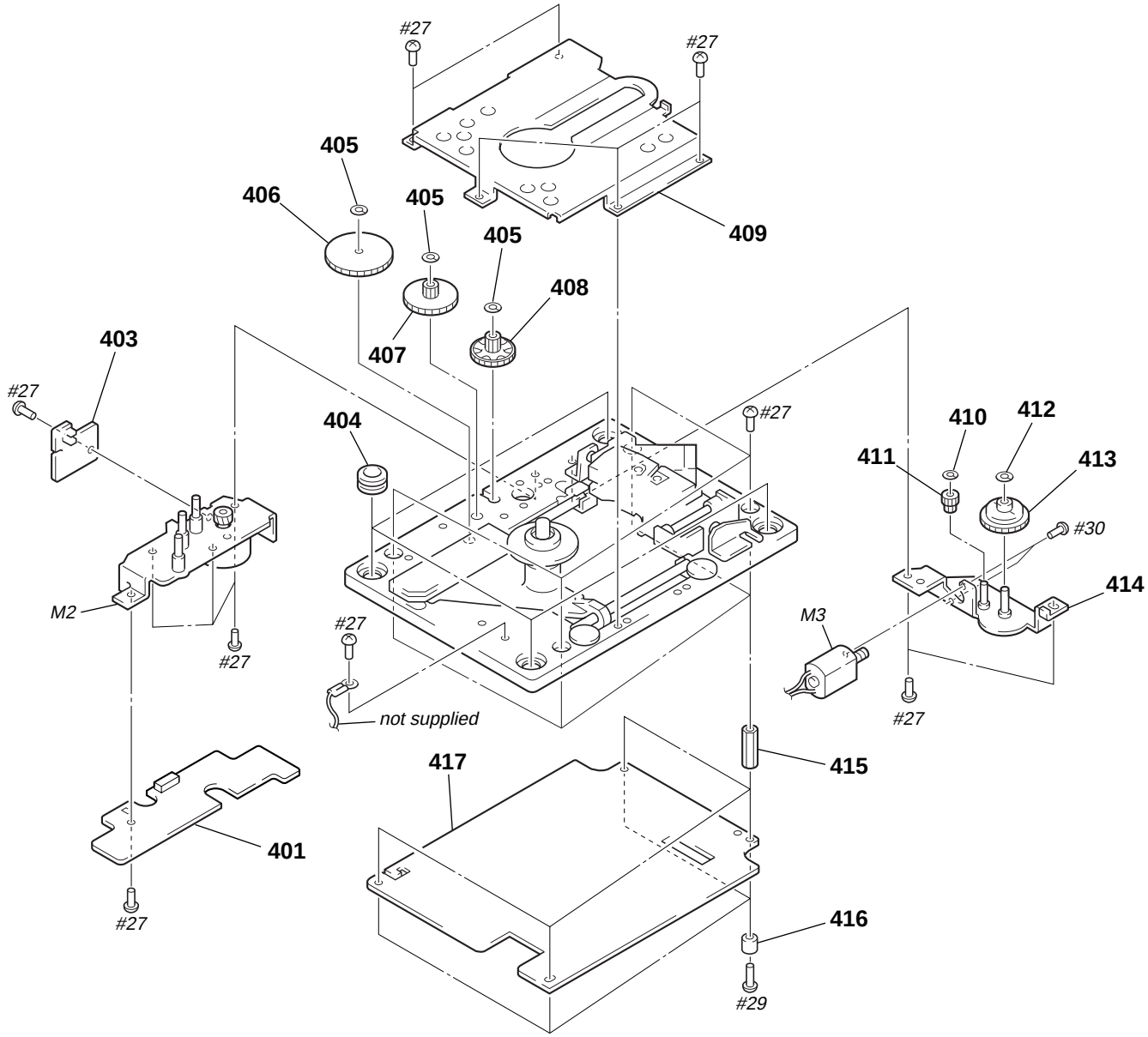
(8) CHASSIS SECTION (SCD-777ES)



Ref. No.	Part No.	Description	Remark
351	4-970-124-01	CUSHION (F50180S)	
352	4-970-487-01	FOOT (F50180S)	
353	4-970-488-01	SPACER (F50180S)	

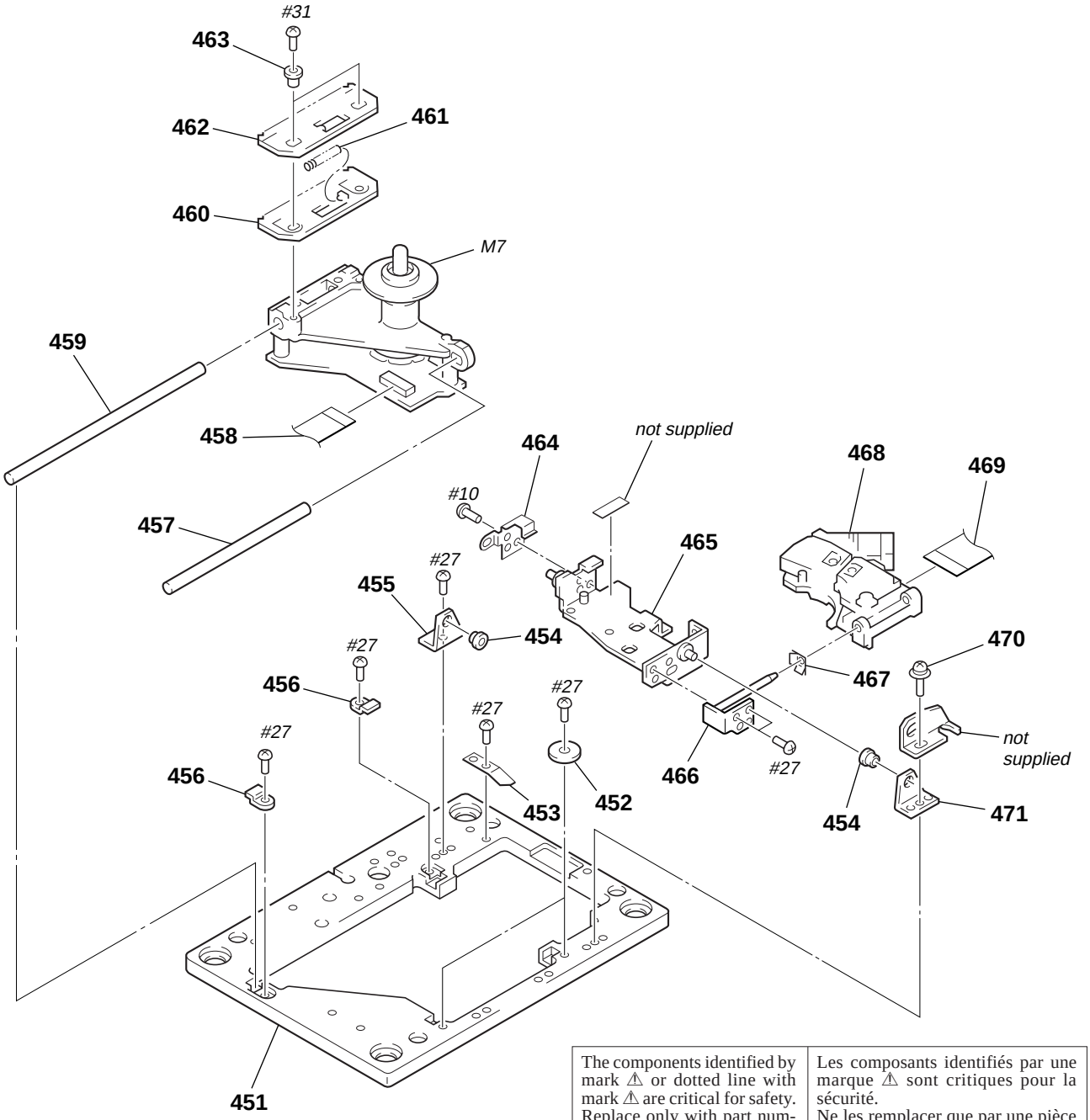
Ref. No.	Part No.	Description	Remark
354	X-4951-689-1	SUPPORT ASSY	
355	4-222-891-01	SHEET	

(9) OP MECHANISM SECTION-1 (BU-23)



Ref. No.	Part No.	Description	Remark
401	1-673-851-12	SLD-MOT BOARD	
403	1-673-852-12	SLD-FG BOARD	
404	4-221-248-01	INSULATOR (BSB-16)	
405	3-364-731-01	WASHER, POLY-SLIDER	
406	4-968-866-11	GEAR (D)	
407	4-968-865-11	GEAR (C)	
408	4-968-864-01	GEAR (B)	
409	4-215-694-01	COVER (BU)	
410	3-321-813-01	WASHER, COTTER POLYETHYLENE	
411	3-975-057-01	GEAR, SKEW	
412	3-911-115-01	WASHER, STOPPER	
413	4-215-688-01	CAM (TILT)	
414	X-4950-838-1	BRACKET (TILT) ASSY	
* 415	2-280-622-61	SUPPORT (M3X20), HEXAGON	
* 416	3-661-588-00	SPACER (3X5)	
417	A-4724-513-A	RF BOARD, COMPLETE	
M2	X-4952-147-1	SLED MOTOR ASSY	
M3	X-4952-148-1	TILT MOTOR ASSY	

(10) OP MECHANISM SECTION-2 (BU-23)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
451	4-215-680-01	BASE, MECHANICAL	
452	4-215-692-01	RETAINER (SUB), SHAFT	
453	4-215-685-01	SPRING (Z), LEAF	
454	4-221-247-01	COLLAR (OP-X)	
455	4-215-681-01	HOLDER (L)	
456	4-215-691-01	RETAINER (MAIN), SHAFT	
457	4-215-690-01	SHAFT (SUB), SLED	
458	1-790-591-11	WIRE (FLAT TYPE) (14 CORE)	
459	4-215-689-01	SHAFT (MAIN), SLED	
460	4-215-686-01	RACK (A), SLIDE	
461	4-215-751-01	SPRING, COMPRESSION	

Ref. No.	Part No.	Description	Remark
462	4-215-687-01	RACK (B), SLIDE	
463	4-215-693-01	COLLAR (RACK)	
464	4-215-683-01	SPRING (X), LEAF	
465	X-4950-836-2	BRACKET (OP) ASSY	
466	X-4950-837-2	RETAINER (OP) ASSY	
467	4-215-684-01	SPRING (Y), LEAF	
⚠468	8-820-005-02	OPTICAL PICK-UP KHS-180A/J1RP	
469	1-665-390-11	OP-15 FLEXIBLE PRINT BOARD	
470	4-623-700-01	+PSW (SMALL CIRCLE) 3X10	
471	4-215-682-01	HOLDER (R)	
M7	1-763-254-11	MOTOR (SPINDLE)	

SECTION 9
ELECTRICAL PARTS LIST

AC **AUDIO**

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
	1-673-854-14	AC BOARD			
		*********			
*	1-533-213-11	HOLDER, FUSE			
		< CAPACITOR >			
⚠C480	1-113-925-11	CERAMIC	0.01uF	20%	250V
⚠C481	1-113-925-11	CERAMIC	0.01uF	20%	250V
⚠C482	1-113-925-11	CERAMIC	0.01uF	20%	250V
⚠C483	1-113-925-11	CERAMIC	0.01uF	20%	250V
⚠C484	1-113-925-11	CERAMIC	0.01uF	20%	250V
⚠C485	1-113-920-11	CERAMIC	0.0022uF	20%	250V
		< CONNECTOR >			
CN480	1-251-234-11	INLET, AC (~ AC IN)			
CN482	1-770-128-11	PIN, CONNECTOR 2P			
* CN483	1-564-321-21	PIN, CONNECTOR 2P			
		< GROUND TERMINAL >			
ETP481	1-537-770-21	TERMINAL BOARD, GROUND			
		< FUSE >			
⚠F481	1-532-259-11	FUSE, TIME-LAG (T1.6AL/250V) (AEP)			
⚠F481	1-532-742-11	FUSE, GLASS TUBE (1.6A/125V) (US, Canadian)			
		< SWITCH >			
⚠S490	1-762-363-11	SWITCH, POWER (ⓘ)			
		< LINE FILTER >			
⚠T481	1-421-915-11	COIL, LINE FILTER			
⚠T482	1-421-915-11	COIL, LINE FILTER			
**********					
	A-4724-518-A	AUDIO BOARD, COMPLETE (SCD-1)			
	A-4724-953-A	AUDIO BOARD, COMPLETE(SCD-777ES)			
		**********			
	2-259-121-01	SCREW, TR			
	4-902-345-01	HEAT SINK			
	3-323-600-01	SPACER			
*	4-363-146-00	HEAT SINK, V. OUT			

Ref. No.	Part No.	Description			Remark
		< BUS BAR >			
* BB301	1-560-242-41	BUS BAR 11P			
BB302	1-569-360-11	BUS BAR			
BB303	1-569-360-11	BUS BAR			
* BB304	1-560-242-31	BUS BAR 5P			
		< CAPACITOR >			
C101	1-128-197-11	ELECT	10uF	20%	63V
C102	1-117-775-31	FILM	0.1uF	10%	250V
C103	1-136-850-11	FILM	0.1uF	5%	63V
C104	1-136-850-11	FILM	0.1uF	5%	63V
C105	1-136-850-11	FILM	0.1uF	5%	63V
C107	1-130-980-51	FILM	0.068uF	3%	100V
C108	1-136-850-11	FILM	0.1uF	5%	63V
C109	1-136-850-11	FILM	0.1uF	5%	63V
C110	1-128-211-51	ELECT	47uF	20%	100V
C111	1-115-197-11	ELECT	100uF	20%	25V
C112	1-136-818-11	FILM	0.0047uF	5%	100V
C113	1-115-197-11	ELECT	100uF	20%	25V
C114	1-136-818-11	FILM	0.0047uF	5%	100V
C115	1-128-655-21	FILM	22PF	10%	50V
C116	1-128-655-21	FILM	22PF	10%	50V
C117	1-128-654-21	FILM	2200PF	5%	50V
C119	1-128-654-21	FILM	2200PF	5%	50V
C120	1-125-854-21	FILM	560PF	5%	50V
C122	1-137-508-11	FILM	2.2uF	10%	63V
C123	1-128-654-21	FILM	2200PF	5%	50V
C124	1-128-654-21	FILM	2200PF	5%	50V
C125	1-128-653-21	FILM	1600PF	5%	50V
C126	1-164-159-11	CERAMIC	0.1uF		50V
C127	1-164-159-11	CERAMIC	0.1uF		50V
C128	1-107-611-11	CAPACITOR	91PF	5%	50V
C129	1-119-800-11	ELECT	100uF	20%	25V
C140	1-107-597-11	CAPACITOR	22PF	5%	500V
C141	1-107-597-11	CAPACITOR	22PF	5%	500V
C201	1-128-197-11	ELECT	10uF	20%	63V
C202	1-117-775-31	FILM	0.1uF	10%	250V
C203	1-136-850-11	FILM	0.1uF	5%	63V
C204	1-136-850-11	FILM	0.1uF	5%	63V
C205	1-136-850-11	FILM	0.1uF	5%	63V
C207	1-130-980-51	FILM	0.068uF	3%	100V
C208	1-136-850-11	FILM	0.1uF	5%	63V
C209	1-136-850-11	FILM	0.1uF	5%	63V

AUDIO

Ref. No.	Part No.	Description			Remark
C210	1-128-211-51	ELECT	47uF	20%	100V
C211	1-115-197-11	ELECT	100uF	20%	25V
C212	1-136-818-11	FILM	0.0047uF	5%	100V
C213	1-115-197-11	ELECT	100uF	20%	25V
C214	1-136-818-11	FILM	0.0047uF	5%	100V
C215	1-128-655-21	FILM	22PF	10%	50V
C216	1-128-655-21	FILM	22PF	10%	50V
C217	1-128-654-21	FILM	2200PF	5%	50V
C219	1-128-654-21	FILM	2200PF	5%	50V
C220	1-125-854-21	FILM	560PF	5%	50V
C222	1-137-508-11	FILM	2.2uF	10%	63V
C223	1-128-654-21	FILM	2200PF	5%	50V
C224	1-128-654-21	FILM	2200PF	5%	50V
C225	1-128-653-21	FILM	1600PF	5%	50V
C226	1-164-159-11	CERAMIC	0.1uF		50V
C227	1-164-159-11	CERAMIC	0.1uF		50V
C228	1-107-611-11	CAPACITOR	91PF	5%	50V
C229	1-119-800-11	ELECT	100uF	20%	25V
C240	1-107-597-11	CAPACITOR	22PF	5%	500V
C241	1-107-597-11	CAPACITOR	22PF	5%	500V
C302	1-110-495-11	ELECT	220uF	20%	25V
C303	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C304	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C305	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C306	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C307	1-115-197-11	ELECT	100uF	20%	25V
C308	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C309	1-115-197-11	ELECT	100uF	20%	25V
C310	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C311	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C312	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C313	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C314	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C315	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C316	1-115-197-11	ELECT	100uF	20%	25V
C317	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C318	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C322	1-110-495-11	ELECT	220uF	20%	25V
C323	1-137-306-11	FILM CHIP	0.1uF	5%	16V
C324	1-110-495-11	ELECT	220uF	20%	25V
C326	1-117-775-31	FILM	0.1uF	10%	250V
C327	1-115-197-11	ELECT	100uF	20%	25V
C328	1-137-306-11	FILM CHIP	0.1uF	5%	16V
C329	1-137-306-11	FILM CHIP	0.1uF	5%	16V
C330	1-137-306-11	FILM CHIP	0.1uF	5%	16V
C331	1-115-197-11	ELECT	100uF	20%	25V
C332	1-137-306-11	FILM CHIP	0.1uF	5%	16V
C333	1-137-306-11	FILM CHIP	0.1uF	5%	16V
C334	1-115-197-11	ELECT	100uF	20%	25V
C336	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C337	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C338	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C401	1-117-775-31	FILM	0.1uF	10%	250V
C402	1-117-775-31	FILM	0.1uF	10%	250V
C403	1-128-205-11	ELECT	1000uF	20%	63V
C404	1-128-205-11	ELECT	1000uF	20%	63V
C405	1-125-857-21	FILM	820PF	5%	50V
C406	1-125-857-21	FILM	820PF	5%	50V
C407	1-128-200-11	ELECT	47uF	20%	63V
C408	1-128-200-11	ELECT	47uF	20%	63V
C409	1-128-200-11	ELECT	47uF	20%	63V
C410	1-128-200-11	ELECT	47uF	20%	63V
C411	1-128-200-11	ELECT	47uF	20%	63V
C412	1-128-200-11	ELECT	47uF	20%	63V

< CONNECTOR >

*	CN101	1-564-506-11	PLUG, CONNECTOR 3P
*	CN102	1-564-506-11	PLUG, CONNECTOR 3P
*	CN104	1-564-506-11	PLUG, CONNECTOR 3P
*	CN105	1-564-509-11	PLUG, CONNECTOR 6P (SCD-1)
*	CN106	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P
*	CN107	1-564-505-11	PLUG, CONNECTOR 2P
*	CN108	1-564-505-11	PLUG, CONNECTOR 2P (SCD-1)
*	CN207	1-564-505-11	PLUG, CONNECTOR 2P
*	CN208	1-564-505-11	PLUG, CONNECTOR 2P (SCD-1)
*	CN301	1-564-506-11	PLUG, CONNECTOR 3P
*	CN302	1-564-712-11	PIN, CONNECTOR (SMALL TYPE)10P
*	CN303	1-564-711-11	PIN, CONNECTOR (SMALL TYPE) 9P
*	CN304	1-564-711-11	PIN, CONNECTOR (ULTRA SMALL)9P

< DIODE >

D101	8-719-313-73	DIODE SFPB-52V
D102	8-719-911-19	DIODE 1SS133T-72
D103	8-719-313-73	DIODE SFPB-52V
D201	8-719-313-73	DIODE SFPB-52V
D202	8-719-911-19	DIODE 1SS133T-72
D203	8-719-313-73	DIODE SFPB-52V
D401	8-719-114-49	DIODE RD7.5JS-T2AB2
D402	8-719-114-49	DIODE RD7.5JS-T2AB2
D413	8-719-200-82	DIODE 11ES2-TA2B
D414	8-719-200-82	DIODE 11ES2-TA2B

< IC >

IC101	8-759-371-51	IC CXA8042AS
IC102	8-759-259-12	IC OPA2604AP
IC103	8-759-566-39	IC OPA2132UA/2K5
IC104	8-759-296-74	IC AD712JR-REEL
IC105	8-759-604-86	IC M5F7807L
IC106	8-759-604-90	IC M5F7907L
IC107	8-759-296-74	IC AD712JR-REEL
IC108	8-759-585-00	IC LM6172IMX
IC109	8-759-585-00	IC LM6172IMX
IC201	8-759-371-51	IC CXA8042AS
IC202	8-759-259-12	IC OPA2604AP
IC203	8-759-566-39	IC OPA2132UA/2K5
IC204	8-759-296-74	IC AD712JR-REEL
IC205	8-759-604-86	IC M5F7807L
IC206	8-759-604-90	IC M5F7907L
IC207	8-759-296-74	IC AD712JR-REEL
IC208	8-759-585-00	IC LM6172IMX
IC209	8-759-585-00	IC LM6172IMX
IC301	8-759-573-17	IC CXD8762AQ
IC302	8-759-476-47	IC CXD8594Q
IC304	8-759-711-58	IC NJM78L05UA-TE1
IC305	8-759-239-23	IC SN74HC86ANS-E05

Ref. No.	Part No.	Description		Remark
IC306	8-759-926-21	IC SN74HC161ANS-E05		
IC307	8-759-926-21	IC SN74HC161ANS-E05		
IC308	8-759-231-53	IC M5F7805L		
IC309	8-759-711-58	IC NJM78L05UA-TE1		
		< SHORT >		
JW304	1-216-295-00	SHORT	0	
JW305	1-216-295-00	SHORT	0	
		< FERRITE BEAD >		
L304	1-414-553-11	FERRITE	0uH	
L305	1-414-553-11	FERRITE	0uH	
L306	1-414-553-11	FERRITE	0uH	
L307	1-414-553-11	FERRITE	0uH	
L308	1-414-553-11	FERRITE	0uH	
L309	1-414-553-11	FERRITE	0uH	
L310	1-414-553-11	FERRITE	0uH	
L311	1-414-553-11	FERRITE	0uH	
L312	1-414-553-11	FERRITE	0uH	
L313	1-414-553-11	FERRITE	0uH	
L314	1-414-553-11	FERRITE	0uH	
L316	1-414-553-11	FERRITE	0uH	
L317	1-414-553-11	FERRITE	0uH	
L318	1-414-553-11	FERRITE	0uH	
L319	1-414-553-11	FERRITE	0uH	
L320	1-414-553-11	FERRITE	0uH	
		< PHOTO COUPLER/IC >		
PHD301	8-749-013-16	IC PC357N2T		
PHD302	8-749-013-16	IC PC357N2T		
PHD303	8-749-924-62	PHOTO COUPLER PC410T		
PHD304	8-749-924-62	PHOTO COUPLER PC410T		
		< TRANSISTOR >		
Q101	8-729-209-74	TRANSISTOR	2SA1213Y-TE12R	
Q102	8-729-209-78	TRANSISTOR	2SC2873Y-TE12R	
Q103	8-729-209-78	TRANSISTOR	2SC2873Y-TE12R	
Q104	8-729-209-78	TRANSISTOR	2SC2873Y-TE12R	
Q105	8-729-209-74	TRANSISTOR	2SA1213Y-TE12R	
Q106	8-729-209-74	TRANSISTOR	2SA1213Y-TE12R	
Q107	8-729-141-58	TRANSISTOR	2SC2275-Q	
Q108	8-729-141-10	TRANSISTOR	2SA985-Q	
Q109	8-729-209-74	TRANSISTOR	2SA1213Y-TE12R	
Q201	8-729-209-74	TRANSISTOR	2SA1213Y-TE12R	
Q202	8-729-209-78	TRANSISTOR	2SC2873Y-TE12R	
Q203	8-729-209-78	TRANSISTOR	2SC2873Y-TE12R	
Q204	8-729-209-78	TRANSISTOR	2SC2873Y-TE12R	
Q205	8-729-209-74	TRANSISTOR	2SA1213Y-TE12R	
Q206	8-729-209-74	TRANSISTOR	2SA1213Y-TE12R	
Q207	8-729-141-58	TRANSISTOR	2SC2275-Q	
Q208	8-729-141-10	TRANSISTOR	2SA985-Q	
Q209	8-729-209-74	TRANSISTOR	2SA1213Y-TE12R	
Q301	8-729-209-74	TRANSISTOR	2SA1213Y-TE12R	
Q302	8-729-900-53	TRANSISTOR	DTC114EKA-T146	
Q303	8-729-209-74	TRANSISTOR	2SA1213Y-TE12R	
Q304	8-729-900-53	TRANSISTOR	DTC114EKA-T146	
Q401	8-729-141-58	TRANSISTOR	2SC2275-Q	
Q402	8-729-141-10	TRANSISTOR	2SA985-Q	
Q403	8-729-209-74	TRANSISTOR	2SA1213Y-TE12R	
Q404	8-729-209-78	TRANSISTOR	2SC2873Y-TE12R	
Q405	8-729-209-78	TRANSISTOR	2SC2873Y-TE12R	
Q406	8-729-209-74	TRANSISTOR	2SA1213Y-TE12R	
Q407	8-729-209-78	TRANSISTOR	2SC2873Y-TE12R	
Q408	8-729-209-74	TRANSISTOR	2SA1213Y-TE12R	
Q409	8-729-036-56	FET	2SK208-GR-TE85L	
Q410	8-729-036-56	FET	2SK208-GR-TE85L	
Q411	8-729-209-74	TRANSISTOR	2SA1213Y-TE12R	
Q412	8-729-209-78	TRANSISTOR	2SC2873Y-TE12R	
Q413	8-729-036-56	FET	2SK208-GR-TE85L	
Q414	8-729-036-56	FEET	2SK208-GR-TE85L	
Q415	8-729-209-78	TRANSISTOR	2SC2873Y-TE12R	
Q416	8-729-209-74	TRANSISTOR	2SA1213Y-TE12R	
Q417	8-729-209-74	TRANSISTOR	2SA1213Y-TE12R	
Q418	8-729-209-78	TRANSISTOR	2SC2873Y-TE12R	
		< RESISTOR >		
R101	1-259-989-11	CARBON MELF	330 2% 1/8W	
R102	1-259-989-11	CARBON MELF	330 2% 1/8W	
R103	1-259-989-11	CARBON MELF	330 2% 1/8W	
R104	1-259-989-11	CARBON MELF	330 2% 1/8W	
R107	1-259-971-11	CARBON MELF	10 2% 1/8W	
R108	1-259-971-11	CARBON MELF	10 2% 1/8W	
R109	1-259-971-11	CARBON MELF	10 2% 1/8W	
R110	1-259-971-11	CARBON MELF	10 2% 1/8W	
R111	1-259-549-11	CARBON	560 1% 1/2W	
R112	1-259-547-11	CARBON	470 1% 1/2W	
R113	1-259-547-11	CARBON	470 1% 1/2W	
R114	1-259-579-11	CARBON	10K 1% 1/2W	
R115	1-259-579-11	CARBON	10K 1% 1/2W	
R116	1-259-579-11	CARBON	10K 1% 1/2W	
R117	1-259-579-11	CARBON	10K 1% 1/2W	
R118	1-249-809-11	CARBON	2K 1% 1/2W	
R119	1-259-561-11	CARBON	1.8K 1% 1/2W	
R120	1-259-545-11	CARBON	390 1% 1/2W	
R122	1-259-591-11	CARBON	33K 1% 1/2W	
R123	1-259-563-11	CARBON	2.2K 1% 1/2W	
R124	1-260-020-11	CARBON MELF	100K 2% 1/8W	
R125	1-216-254-00	CARBON MELF	220K 2% 1/8W	
R126	1-216-254-00	CARBON MELF	220K 2% 1/8W	
R127	1-259-531-11	CARBON	100 1% 1/2W	
R128	1-259-989-11	CARBON MELF	330 2% 1/8W	
R129	1-259-989-11	CARBON MELF	330 2% 1/8W	
R130	1-249-415-11	CARBON	680 5% 1/4W	
R131	1-259-989-11	CARBON MELF	330 2% 1/8W	
R132	1-259-989-11	CARBON MELF	330 2% 1/8W	
R133	1-259-539-11	CARBON	220 1% 1/2W	
R134	1-259-539-11	CARBON	220 1% 1/2W	
R135	1-259-519-11	CARBON	33 1% 1/2W	
R136	1-249-415-11	CARBON	680 5% 1/4W	
R137	1-259-933-11	CARBON MELF	7.5K 2% 1/8W	
R138	1-259-924-11	CARBON MELF	1.3K 2% 1/8W	
R139	1-259-924-11	CARBON MELF	1.3K 2% 1/8W	
R140	1-259-995-11	CARBON MELF	1K 2% 1/8W	
R141	1-259-996-11	CARBON MELF	1.2K 2% 1/8W	
R142	1-259-924-11	CARBON MELF	1.3K 2% 1/8W	

AUDIO

Ref. No.	Part No.	Description			Remark
R143	1-259-924-11	CARBON MELF	1.3K	2%	1/8W
R144	1-259-992-11	CARBON MELF	560	2%	1/8W
R145	1-259-920-11	CARBON MELF	620	2%	1/8W
R147	1-259-991-11	CARBON MELF	470	2%	1/8W
R201	1-259-989-11	CARBON MELF	330	2%	1/8W
R202	1-259-989-11	CARBON MELF	330	2%	1/8W
R203	1-259-989-11	CARBON MELF	330	2%	1/8W
R204	1-259-989-11	CARBON MELF	330	2%	1/8W
R207	1-259-971-11	CARBON MELF	10	2%	1/8W
R208	1-259-971-11	CARBON MELF	10	2%	1/8W
R209	1-259-971-11	CARBON MELF	10	2%	1/8W
R210	1-259-971-11	CARBON MELF	10	2%	1/8W
R211	1-259-549-11	CARBON	560	1%	1/2W
R212	1-259-547-11	CARBON	470	1%	1/2W
R213	1-259-547-11	CARBON	470	1%	1/2W
R214	1-259-579-11	CARBON	10K	1%	1/2W
R215	1-259-579-11	CARBON	10K	1%	1/2W
R216	1-259-579-11	CARBON	10K	1%	1/2W
R217	1-259-579-11	CARBON	10K	1%	1/2W
R218	1-249-809-11	CARBON	2K	1%	1/2W
R219	1-259-561-11	CARBON	1.8K	1%	1/2W
R220	1-259-545-11	CARBON	390	1%	1/2W
R222	1-259-591-11	CARBON	33K	1%	1/2W
R223	1-259-563-11	CARBON	2.2K	1%	1/2W
R224	1-260-020-11	CARBON MELF	100K	2%	1/8W
R225	1-216-254-00	CARBON MELF	220K	2%	1/8W
R226	1-216-254-00	CARBON MELF	220K	2%	1/8W
R227	1-259-531-11	CARBON	100	1%	1/2W
R228	1-259-989-11	CARBON MELF	330	2%	1/8W
R229	1-259-989-11	CARBON MELF	330	2%	1/8W
R230	1-249-415-11	CARBON	680	5%	1/4W
R231	1-259-989-11	CARBON MELF	330	2%	1/8W
R232	1-259-989-11	CARBON MELF	330	2%	1/8W
R233	1-259-539-11	CARBON	220	1%	1/2W
R234	1-259-539-11	CARBON	220	1%	1/2W
R235	1-259-519-11	CARBON	33	1%	1/2W
R236	1-249-415-11	CARBON	680	5%	1/4W
R237	1-259-933-11	CARBON MELF	7.5K	2%	1/8W
R238	1-259-924-11	CARBON MELF	1.3K	2%	1/8W
R239	1-259-924-11	CARBON MELF	1.3K	2%	1/8W
R240	1-259-995-11	CARBON MELF	1K	2%	1/8W
R241	1-259-996-11	CARBON MELF	1.2K	2%	1/8W
R242	1-259-924-11	CARBON MELF	1.3K	2%	1/8W
R243	1-259-924-11	CARBON MELF	1.3K	2%	1/8W
R244	1-259-992-11	CARBON MELF	560	2%	1/8W
R245	1-259-920-11	CARBON MELF	620	2%	1/8W
R247	1-259-991-11	CARBON MELF	470	2%	1/8W
R302	1-216-037-00	METAL CHIP	330	5%	1/10W
⚠R303	1-212-976-11	FUSIBLE	56	5%	1/2W F
R304	1-216-073-00	METAL CHIP	10K	5%	1/10W
R305	1-216-081-00	METAL CHIP	22K	5%	1/10W
R306	1-216-037-00	METAL CHIP	330	5%	1/10W
R307	1-216-295-00	SHORT	0		
R308	1-216-041-00	METAL CHIP	470	5%	1/10W
R309	1-216-041-00	METAL CHIP	470	5%	1/10W
R310	1-216-037-00	METAL CHIP	330	5%	1/10W
R311	1-216-037-00	METAL CHIP	330	5%	1/10W
R312	1-216-037-00	METAL CHIP	330	5%	1/10W
R313	1-216-037-00	METAL CHIP	330	5%	1/10W
R314	1-216-037-00	METAL CHIP	330	5%	1/10W
R315	1-216-037-00	METAL CHIP	330	5%	1/10W
R316	1-216-037-00	METAL CHIP	330	5%	1/10W
R317	1-216-037-00	METAL CHIP	330	5%	1/10W
R318	1-216-037-00	METAL CHIP	330	5%	1/10W
R319	1-216-037-00	METAL CHIP	330	5%	1/10W
R320	1-216-037-00	METAL CHIP	330	5%	1/10W
R321	1-216-037-00	METAL CHIP	330	5%	1/10W
R322	1-216-037-00	METAL CHIP	330	5%	1/10W
R323	1-216-049-11	RES, CHIP	1K	5%	1/10W
R325	1-216-041-00	METAL CHIP	470	5%	1/10W
R326	1-216-295-00	SHORT	0		
R327	1-216-295-00	SHORT	0		
R328	1-216-295-00	SHORT	0		
R329	1-216-089-00	RES, CHIP	47K	5%	1/10W
R330	1-216-073-00	METAL CHIP	10K	5%	1/10W
R331	1-216-073-00	METAL CHIP	10K	5%	1/10W
R332	1-216-049-11	RES, CHIP	1K	5%	1/10W
R336	1-216-049-11	RES, CHIP	1K	5%	1/10W
R337	1-216-037-00	METAL CHIP	330	5%	1/10W
⚠R338	1-212-976-11	FUSIBLE	56	5%	1/2W F
R339	1-216-073-00	METAL CHIP	10K	5%	1/10W
R340	1-216-081-00	METAL CHIP	22K	5%	1/10W
R341	1-216-037-00	METAL CHIP	330	5%	1/10W
R342	1-216-049-11	RES, CHIP	1K	5%	1/10W
R343	1-216-037-00	METAL CHIP	330	5%	1/10W
R344	1-216-037-00	METAL CHIP	330	5%	1/10W
R345	1-216-025-00	RES, CHIP	100	5%	1/10W
R346	1-216-025-00	RES, CHIP	100	5%	1/10W
R347	1-216-295-00	SHORT	0		
R348	1-216-295-00	SHORT	0		
R349	1-216-295-00	SHORT	0		
R350	1-216-041-00	METAL CHIP	470	5%	1/10W
R351	1-216-041-00	METAL CHIP	470	5%	1/10W
R401	1-259-557-11	CARBON	1.2K	1%	1/2W
R402	1-259-557-11	CARBON	1.2K	1%	1/2W
R403	1-259-555-11	CARBON	1K	1%	1/2W
R404	1-259-555-11	CARBON	1K	1%	1/2W
R405	1-260-001-11	CARBON MELF	2.7K	2%	1/8W
R406	1-260-001-11	CARBON MELF	2.7K	2%	1/8W
R407	1-260-001-11	CARBON MELF	2.7K	2%	1/8W
R408	1-260-001-11	CARBON MELF	2.7K	2%	1/8W
R409	1-259-988-11	CARBON MELF	270	2%	1/8W
R410	1-259-988-11	CARBON MELF	270	2%	1/8W
R411	1-259-559-11	CARBON	1.5K	1%	1/2W
R412	1-259-559-11	CARBON	1.5K	1%	1/2W
R413	1-260-008-11	CARBON MELF	10K	2%	1/8W
R414	1-260-008-11	CARBON MELF	10K	2%	1/8W
R415	1-259-571-11	CARBON	4.7K	1%	1/2W
R416	1-259-571-11	CARBON	4.7K	1%	1/2W
R417	1-259-999-11	CARBON MELF	2.2K	2%	1/8W
R418	1-259-999-11	CARBON MELF	2.2K	2%	1/8W
R419	1-249-415-11	CARBON	680	5%	1/4W
R420	1-249-415-11	CARBON	680	5%	1/4W
R421	1-259-995-11	CARBON MELF	1K	2%	1/8W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
R422	1-259-995-11	CARBON MELF	1K	2%	1/8W
R423	1-259-995-11	CARBON MELF	1K	2%	1/8W
R424	1-259-995-11	CARBON MELF	1K	2%	1/8W
R425	1-249-415-11	CARBON	680	5%	1/4W
R426	1-249-415-11	CARBON	680	5%	1/4W
R427	1-259-525-11	CARBON	56	1%	1/2W
R428	1-259-525-11	CARBON	56	1%	1/2W
R440	1-259-672-11	CARBON	680	2%	1W
		< RELAY >			
RY101	1-755-294-11	RELAY			
RY102	1-755-294-11	RELAY			
RY201	1-755-294-11	RELAY			
RY202	1-755-294-11	RELAY			
		< VIBRATOR >			
X301	1-781-384-11	OSCILLATOR, CRYSTAL (45MHz)			
**********					
	A-4724-931-A	BAL BOARD, COMPLETE (SCD-1)			
		**********			
		< CAPACITOR >			
C171	1-128-997-11	FILM CHIP	0.047uF	5%	50V
C172	1-128-997-11	FILM CHIP	0.047uF	5%	50V
C173	1-136-810-11	FILM	220PF	5%	100V
C174	1-136-810-11	FILM	220PF	5%	100V
C175	1-136-810-11	FILM	220PF	5%	100V
C176	1-136-810-11	FILM	220PF	5%	100V
C177	1-117-775-31	FILM	0.1uF	10%	250V
C178	1-117-775-31	FILM	0.1uF	10%	250V
C179	1-119-810-11	ELECT	100uF	20%	35V
C180	1-119-810-11	ELECT	100uF	20%	35V
C271	1-128-997-11	FILM CHIP	0.047uF	5%	50V
C272	1-128-997-11	FILM CHIP	0.047uF	5%	50V
C273	1-136-810-11	FILM	220PF	5%	100V
C274	1-136-810-11	FILM	220PF	5%	100V
C275	1-136-810-11	FILM	220PF	5%	100V
C276	1-136-810-11	FILM	220PF	5%	100V
C277	1-117-775-31	FILM	0.1uF	10%	250V
C278	1-117-775-31	FILM	0.1uF	10%	250V
C279	1-119-810-11	ELECT	100uF	20%	35V
C280	1-119-810-11	ELECT	100uF	20%	35V
		< CONNECTOR >			
* CN170	1-564-519-11	PLUG, CONNECTOR 4P			
* CN171	1-564-521-11	PLUG, CONNECTOR 6P			
CN173	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P			
		< DIODE >			
D171	8-719-911-19	DIODE 1SS133T-72			
D172	8-719-911-19	DIODE 1SS133T-72			
		< IC >			
IC171	8-759-296-74	IC AD712JR-REEL			
IC271	8-759-296-74	IC AD712JR-REEL			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R171	1-260-008-11	CARBON MELF	10K	2%	1/8W
R172	1-260-008-11	CARBON MELF	10K	2%	1/8W
R173	1-260-008-11	CARBON MELF	10K	2%	1/8W
R174	1-260-008-11	CARBON MELF	10K	2%	1/8W
R175	1-260-008-11	CARBON MELF	10K	2%	1/8W
R176	1-260-008-11	CARBON MELF	10K	2%	1/8W
R177	1-260-008-11	CARBON MELF	10K	2%	1/8W
R178	1-260-008-11	CARBON MELF	10K	2%	1/8W
R179	1-259-983-11	CARBON MELF	100	2%	1/8W
R180	1-259-983-11	CARBON MELF	100	2%	1/8W
R181	1-259-983-11	CARBON MELF	100	2%	1/8W
R184	1-259-983-11	CARBON MELF	100	2%	1/8W
R185	1-260-020-11	CARBON MELF	100K	2%	1/8W
R186	1-260-020-11	CARBON MELF	100K	2%	1/8W
R271	1-260-008-11	CARBON MELF	10K	2%	1/8W
R272	1-260-008-11	CARBON MELF	10K	2%	1/8W
R273	1-260-008-11	CARBON MELF	10K	2%	1/8W
R274	1-260-008-11	CARBON MELF	10K	2%	1/8W
R275	1-260-008-11	CARBON MELF	10K	2%	1/8W
R276	1-260-008-11	CARBON MELF	10K	2%	1/8W
R277	1-260-008-11	CARBON MELF	10K	2%	1/8W
R278	1-260-008-11	CARBON MELF	10K	2%	1/8W
R279	1-259-983-11	CARBON MELF	100	2%	1/8W
R280	1-259-983-11	CARBON MELF	100	2%	1/8W
R281	1-259-983-11	CARBON MELF	100	2%	1/8W
R284	1-259-983-11	CARBON MELF	100	2%	1/8W
R285	1-260-020-11	CARBON MELF	100K	2%	1/8W
R286	1-260-020-11	CARBON MELF	100K	2%	1/8W
		< RELAY >			
RY170	1-755-294-11	RELAY			
RY171	1-755-294-11	RELAY			
**********					
	A-4724-524-A	COAX BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C990	1-136-850-11	FILM	0.1uF	5%	63V
C991	1-107-611-11	CAPACITOR	100PF	5%	500V
C992	1-104-645-11	CERAMIC	1uF	20%	50V
C993	1-164-732-11	CERAMIC	0.1uF	20%	50V
C994	1-164-732-11	CERAMIC	0.1uF	20%	50V
C996	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
* CN991	1-568-943-11	PIN, CONNECTOR 5P			
* CN992	1-564-719-31	PIN, CONNECTOR (SMALL TYPE) 3P			
* CN993	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
		< IC >			
IC990	8-759-242-70	IC TC7WU04F-TE12L			
		< JACK >			
J990	1-507-567-71	JACK, PIN 1P (DIGITAL OUT (CD) COAXIAL)			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R990	1-259-909-11	CARBON MELF	75	2%	1/8W
R991	1-259-987-11	CARBON MELF	220	2%	1/8W
		< COIL >			
T991	1-459-795-11	COIL (WITH CORE)			
**********					
	A-4724-528-A	DISPLAY BOARD, COMPLETE			
		**********			
*	4-987-501-01	HOLDER (FL)			
		< CAPACITOR >			
C1001	1-104-665-11	ELECT	100uF	20%	10V
C1002	1-164-159-11	CERAMIC	0.1uF		50V
C1003	1-164-159-11	CERAMIC	0.1uF		50V
C1004	1-162-215-31	CERAMIC	47PF	5%	50V
C1005	1-162-294-31	CERAMIC	0.001uF	10%	50V
C1006	1-164-159-11	CERAMIC	0.1uF		50V
C1007	1-164-159-11	CERAMIC	0.1uF		50V
C1008	1-164-159-11	CERAMIC	0.1uF		50V
C1010	1-164-159-11	CERAMIC	0.1uF		50V
C1011	1-162-282-31	CERAMIC	100PF	10%	50V
C1012	1-162-282-31	CERAMIC	100PF	10%	50V
C1013	1-162-282-31	CERAMIC	100PF	10%	50V
C1014	1-162-282-31	CERAMIC	100PF	10%	50V
C1015	1-162-282-31	CERAMIC	100PF	10%	50V
C1016	1-162-282-31	CERAMIC	100PF	10%	50V
C1017	1-162-282-31	CERAMIC	100PF	10%	50V
C1018	1-162-282-31	CERAMIC	100PF	10%	50V
C1019	1-162-282-31	CERAMIC	100PF	10%	50V
C1020	1-164-159-11	CERAMIC	0.1uF		50V
C1021	1-104-664-11	ELECT	47uF	20%	10V
C1022	1-164-159-11	CERAMIC	0.1uF		50V
C1023	1-164-159-11	CERAMIC	0.1uF		50V
C1080	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CN1003	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P			
		< DIODE >			
D1005	8-719-911-19	DIODE 1SS133T-72			
		< FLUORESCENT INDICATOR TUBE >			
FL1001	1-517-879-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC1001	8-752-904-71	IC CXP84120-082Q			
IC1002	8-759-583-23	IC MSM9201-03GS-K			
IC1003	8-759-459-86	IC NJL64H400A (R)			
		< TRANSISTOR >			
Q1001	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q1002	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q1003	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q1004	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q1005	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q1006	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q1007	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q1008	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q1009	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q1010	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q1011	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q1012	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q1021	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q1022	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q1023	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q1024	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
		< RESISTOR >			
R1001	1-216-025-00	RES, CHIP	100	5%	1/10W
R1002	1-216-025-00	RES, CHIP	100	5%	1/10W
R1003	1-216-025-00	RES, CHIP	100	5%	1/10W
R1004	1-216-025-00	RES, CHIP	100	5%	1/10W
R1005	1-216-025-00	RES, CHIP	100	5%	1/10W
R1006	1-216-025-00	RES, CHIP	100	5%	1/10W
R1007	1-216-025-00	RES, CHIP	100	5%	1/10W
R1008	1-216-025-00	RES, CHIP	100	5%	1/10W
R1009	1-216-025-00	RES, CHIP	100	5%	1/10W
R1010	1-216-025-00	RES, CHIP	100	5%	1/10W
R1011	1-216-025-00	RES, CHIP	100	5%	1/10W
R1012	1-216-025-00	RES, CHIP	100	5%	1/10W
R1021	1-216-089-00	RES, CHIP	47K	5%	1/10W
R1022	1-216-089-00	RES, CHIP	47K	5%	1/10W
R1023	1-216-089-00	RES, CHIP	47K	5%	1/10W
R1024	1-216-089-00	RES, CHIP	47K	5%	1/10W
R1025	1-216-089-00	RES, CHIP	47K	5%	1/10W
R1026	1-216-089-00	RES, CHIP	47K	5%	1/10W
R1027	1-216-089-00	RES, CHIP	47K	5%	1/10W
R1028	1-216-089-00	RES, CHIP	47K	5%	1/10W
R1029	1-216-089-00	RES, CHIP	47K	5%	1/10W
R1030	1-216-089-00	RES, CHIP	47K	5%	1/10W
R1031	1-216-089-00	RES, CHIP	47K	5%	1/10W
R1032	1-216-089-00	RES, CHIP	47K	5%	1/10W
R1033	1-216-089-00	RES, CHIP	47K	5%	1/10W
R1034	1-247-843-11	CARBON	3.3K	5%	1/4W
R1035	1-247-807-31	CARBON	100	5%	1/4W
R1042	1-247-807-31	CARBON	100	5%	1/4W
R1043	1-247-807-31	CARBON	100	5%	1/4W
R1044	1-247-807-31	CARBON	100	5%	1/4W
R1045	1-247-807-31	CARBON	100	5%	1/4W
R1046	1-247-807-31	CARBON	100	5%	1/4W
R1047	1-249-427-11	CARBON	6.8K	5%	1/4W
R1048	1-249-427-11	CARBON	6.8K	5%	1/4W
R1068	1-249-429-11	CARBON	10K	5%	1/4W
R1071	1-249-429-11	CARBON	10K	5%	1/4W
R1072	1-249-429-11	CARBON	10K	5%	1/4W
R1073	1-249-429-11	CARBON	10K	5%	1/4W
R1074	1-249-429-11	CARBON	10K	5%	1/4W
R1075	1-249-429-11	CARBON	10K	5%	1/4W
R1076	1-249-429-11	CARBON	10K	5%	1/4W
R1077	1-249-429-11	CARBON	10K	5%	1/4W
R1078	1-249-429-11	CARBON	10K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R1080	1-249-429-11	CARBON	10K	5%	1/4W
R1081	1-249-429-11	CARBON	10K	5%	1/4W
R1082	1-249-429-11	CARBON	10K	5%	1/4W
		< VIBRATOR >			
X1001	1-579-125-11	VIBRATOR, CERAMIC (8MHz)			
**********					
	1-673-867-12	LOAD-CN BOARD			
		**********			
		< CONNECTOR >			
* CN016	1-573-044-11	SOCKET, CONNECTOR 5P			
* CN017	1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P			
**********					
	1-673-864-12	LOAD-MOT BOARD			
		**********			
		< CAPACITOR >			
C091	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CN013	1-564-719-41	PIN, CONNECTOR (SMALL TYPE) 3P			
**********					
	1-673-865-12	LOAD-SW BOARD			
		**********			
* CN012	1-564-719-41	PIN, CONNECTOR (SMALL TYPE) 3P			
		< SWITCH >			
S003	1-771-638-11	SWITCH, PUSH (1 KEY) (OPEN)			
S004	1-771-638-11	SWITCH, PUSH (1 KEY) (CLOSE)			
**********					
	A-4724-951-A	MAIN BOARD, COMPLETE			
		**********			
*	1-251-496-21	SOCKET, IC			
*	3-709-100-01	COVER, IC SOCKET			
		< CAPACITOR >			
C501	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C502	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C504	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C505	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C506	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C507	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C508	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C509	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C510	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C511	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C512	1-107-548-11	ELECT CHIP	22uF	20%	16V
C513	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C514	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C516	1-126-193-11	ELECT	1uF	20%	50V
C517	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C518	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C519	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C520	1-128-004-11	ELECT CHIP	10uF	20%	16V
C521	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C522	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C523	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C524	1-107-548-11	ELECT CHIP	22uF	20%	16V
C525	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C526	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C527	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C528	1-119-750-11	TANTALUM CHIP	22uF	20%	6.3V
C530	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C531	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C532	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C533	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C534	1-107-548-11	ELECT CHIP	22uF	20%	16V
C535	1-107-682-11	CERAMIC CHIP	1uF	10%	16V
C536	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C537	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C540	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C542	1-115-414-11	CERAMIC CHIP	820PF	5%	25V
C543	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C544	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C545	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C546	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C547	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C548	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C549	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C550	1-115-414-11	CERAMIC CHIP	820PF	5%	25V
C551	1-115-414-11	CERAMIC CHIP	820PF	5%	25V
C552	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C553	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C554	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C556	1-107-548-11	ELECT CHIP	22uF	20%	16V
C557	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C559	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C560	1-107-548-11	ELECT CHIP	22uF	20%	16V
C561	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C562	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C563	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C564	1-128-004-11	ELECT CHIP	10uF	20%	16V
C565	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C566	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C567	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C568	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C569	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C570	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C571	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C572	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C573	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C574	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C575	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C576	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C577	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C579	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
C580	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C581	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C582	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C583	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

MAIN

Ref. No.	Part No.	Description			Remark
C584	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C585	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C586	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V
C587	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C588	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C589	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C590	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C591	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C592	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C593	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C594	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C595	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C596	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C597	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C598	1-128-004-11	ELECT CHIP	10uF	20%	16V
C599	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C600	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C601	1-128-004-11	ELECT CHIP	10uF	20%	16V
C603	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C604	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C605	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C606	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C607	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C608	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C609	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C616	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C617	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C618	1-115-416-11	CERAMIC CHIP	1000PF	5%	25V
C619	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C620	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C621	1-115-156-11	CERAMIC CHIP	1uF		10V
C622	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C623	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C701	1-107-548-11	ELECT CHIP	22uF	20%	16V
C702	1-107-548-11	ELECT CHIP	22uF	20%	16V
C703	1-107-548-11	ELECT CHIP	22uF	20%	16V
C704	1-107-548-11	ELECT CHIP	22uF	20%	16V
C705	1-107-548-11	ELECT CHIP	22uF	20%	16V
C706	1-107-548-11	ELECT CHIP	22uF	20%	16V
C707	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C708	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C709	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C710	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C711	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C712	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C713	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C714	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C715	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C716	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C717	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C718	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C719	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C720	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C721	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V
C722	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C723	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C724	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

Ref. No.	Part No.	Description			Remark
C725	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C726	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C727	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C728	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C729	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C730	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C731	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C732	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C733	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C734	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C735	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C736	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C737	1-107-548-11	ELECT CHIP	22uF	20%	16V
C738	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C739	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C740	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C741	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C742	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C743	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C744	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C745	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C746	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C747	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C748	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C749	1-128-004-11	ELECT CHIP	10uF	20%	16V
C750	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C751	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C752	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C753	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C754	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C755	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C756	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C757	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C758	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C759	1-128-004-11	ELECT CHIP	10uF	20%	16V
C760	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C761	1-107-548-11	ELECT CHIP	22uF	20%	16V
C762	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C763	1-107-548-11	ELECT CHIP	22uF	20%	16V
C764	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C765	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C766	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C767	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C768	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C769	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C770	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C771	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C772	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C774	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C775	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C776	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C777	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C778	1-107-549-11	ELECT CHIP	33uF	20%	16V
C779	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C780	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C781	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C782	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C783	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

Ref. No.	Part No.	Description			Remark
C785	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C786	1-107-548-11	ELECT CHIP	22uF	20%	16V
C787	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C788	1-107-548-11	ELECT CHIP	22uF	20%	16V
C789	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C790	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C791	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C793	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C794	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C795	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C796	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C797	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C798	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C799	1-107-548-11	ELECT CHIP	22uF	20%	16V
C800	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C801	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C802	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C803	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C804	1-107-548-11	ELECT CHIP	22uF	20%	16V
C805	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C806	1-107-548-11	ELECT CHIP	22uF	20%	16V
C807	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C808	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C809	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C810	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C811	1-107-548-11	ELECT CHIP	22uF	20%	16V
C812	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C813	1-107-548-11	ELECT CHIP	22uF	20%	16V
C814	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C815	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C816	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C817	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C819	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C820	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C821	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C822	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C823	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C824	1-126-190-11	ELECT CHIP	0.33uF	20%	50V
C825	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C826	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C828	1-128-004-11	ELECT CHIP	10uF	20%	16V
C829	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C830	1-128-004-11	ELECT CHIP	10uF	20%	16V
C831	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C832	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C833	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C834	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C835	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C836	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C838	1-128-004-11	ELECT CHIP	10uF	20%	16V
C839	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C840	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C841	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C842	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C843	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C844	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C850	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C851	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C857	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C858	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C860	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C861	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C862	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C863	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C865	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C866	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C867	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C868	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C869	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C871	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C872	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C873	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C874	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C875	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C876	1-115-416-11	CERAMIC CHIP	1000PF	5%	25V
C877	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C878	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C880	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1502	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C1503	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C1504	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1505	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C1506	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1507	1-115-156-11	CERAMIC CHIP	1uF		10V
C1521	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C1522	1-115-156-11	CERAMIC CHIP	1uF		10V
C1551	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C1552	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C1555	1-115-156-11	CERAMIC CHIP	1uF		10V
C1561	1-216-864-11	METAL CHIP	0	5%	1/16W
C1601	1-107-549-11	ELECT CHIP	33uF	20%	16V
C1602	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1651	1-135-210-11	TANTALUM CHIP	4.7uF	10%	10V
C1652	1-135-210-11	TANTALUM CHIP	4.7uF	10%	10V
C1653	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1655	1-135-210-11	TANTALUM CHIP	4.7uF	10%	10V
C1656	1-119-824-11	ELECT	10uF	20%	50V

< CONNECTOR >

Ref. No.	Part No.	Description	Remark
CN501	1-784-383-21	CONNECTOR (FFC/FPC) 26P	
CN502	1-784-383-21	CONNECTOR (FFC/FPC) 26P	
CN503	1-770-215-11	PIN, CONNECTOR (PC BOARD) 7P	
CN504	1-790-676-11	PIN, CONNECTOR (PC BOARD) 10P	
* CN701	1-770-153-11	PIN, CONNECTOR (PC BOARD) 8P	
CN702	1-790-675-11	PIN, CONNECTOR (PC BOARD) 7P	
CN703	1-778-315-11	PIN, CONNECTOR (PC BOARD) 5P	
CN704	1-790-676-11	PIN, CONNECTOR (PC BOARD) 10P	
CN705	1-790-669-41	PIN, CONNECTOR (PC BOARD) 9P	
CN706	1-790-669-21	PIN, CONNECTOR (PC BOARD) 9P	
CN707	1-790-675-11	PIN, CONNECTOR (PC BOARD) 7P	(FOR RS-232C)
CN708	1-778-998-21	PIN, CONNECTOR (PC BOARD) 3P	

< DIODE >

Ref. No.	Part No.	Description
D501	8-719-988-61	DIODE 1SS355TE-17

MAIN

Ref. No.	Part No.	Description			Remark
D502	8-719-988-61	DIODE 1SS355TE-17			
D503	8-719-060-48	DIODE RB751V-40TE-17			
D504	8-719-977-04	DIODE DTZ-TT11-5.6C			
D701	8-719-975-40	DIODE RB411D-T146			
D702	8-719-941-86	DIODE DAN202UT106			
D1501	8-719-988-61	DIODE 1SS355TE-17			
		< GROUND PLATE >			
* EB701	4-942-204-01	PLATE, GROUND			
		< FERRITE BEAD/COIL/RESISTOR >			
FB501	1-500-283-11	INDUCTOR CHIP	0uH		
FB701	1-469-116-21	FERRITE	0uH		
FB702	1-469-116-21	FERRITE	0uH		
FB703	1-469-116-21	FERRITE	0uH		
FB704	1-469-116-21	FERRITE	0uH		
FB705	1-469-116-21	FERRITE	0uH		
FB706	1-469-116-21	FERRITE	0uH		
FB707	1-469-116-21	FERRITE	0uH		
FB708	1-469-116-21	FERRITE	0uH		
FB750	1-500-283-11	INDUCTOR CHIP	0uH		
FB751	1-500-283-11	INDUCTOR CHIP	0uH		
FB752	1-500-283-11	INDUCTOR CHIP	0uH		
FB753	1-500-283-11	INDUCTOR CHIP	0uH		
FB754	1-500-283-11	INDUCTOR CHIP	0uH		
FB755	1-500-283-11	INDUCTOR CHIP	0uH		
FB756	1-500-283-11	INDUCTOR CHIP	0uH		
FB757	1-500-283-11	INDUCTOR CHIP	0uH		
FB758	1-500-283-11	INDUCTOR CHIP	0uH		
FB759	1-216-864-11	METAL CHIP	0	5%	1/16W
FB760	1-500-283-11	INDUCTOR CHIP	0uH		
FB761	1-500-283-11	INDUCTOR CHIP	0uH		
FB762	1-500-283-11	INDUCTOR CHIP	0uH		
FB763	1-500-283-11	INDUCTOR CHIP	0uH		
FB764	1-500-283-11	INDUCTOR CHIP	0uH		
FB765	1-500-283-11	INDUCTOR CHIP	0uH		
FB766	1-216-864-11	METAL CHIP	0	5%	1/16W
FB767	1-500-283-11	INDUCTOR CHIP	0uH		
FB768	1-500-283-11	INDUCTOR CHIP	0uH		
* FB801	1-500-449-21	FERRITE	0uH		
* FB802	1-500-449-21	FERRITE	0uH		
* FB803	1-500-449-21	FERRITE	0uH		
* FB804	1-500-449-21	FERRITE	0uH		
* FB805	1-500-449-21	FERRITE	0uH		
* FB806	1-500-449-21	FERRITE	0uH		
* FB807	1-500-449-21	FERRITE	0uH		
* FB808	1-500-449-21	FERRITE	0uH		
* FB809	1-500-449-21	FERRITE	0uH		
* FB810	1-500-449-21	FERRITE	0uH		
* FB811	1-500-449-21	FERRITE	0uH		
* FB812	1-500-449-21	FERRITE	0uH		
* FB813	1-500-449-21	FERRITE	0uH		
* FB814	1-500-449-21	FERRITE	0uH		
		< FILTER >			
FL501	1-234-177-21	FILTER, CHIP EMI			
FL502	1-233-893-21	FILTER, CHIP EMI			
FL503	1-233-893-21	FILTER, CHIP EMI			
FL504	1-233-893-21	FILTER, CHIP EMI			
FL505	1-233-893-21	FILTER, CHIP EMI			
FL506	1-234-177-21	FILTER, CHIP EMI			
FL507	1-234-177-21	FILTER, CHIP EMI			
FL508	1-234-177-21	FILTER, CHIP EMI			
FL509	1-234-177-21	FILTER, CHIP EMI			
FL510	1-234-177-21	FILTER, CHIP EMI			
FL511	1-234-177-21	FILTER, CHIP EMI			
FL701	1-233-893-21	FILTER, CHIP EMI			
FL702	1-234-177-21	FILTER, CHIP EMI			
FL703	1-234-177-21	FILTER, CHIP EMI			
FL704	1-234-177-21	FILTER, CHIP EMI			
FL705	1-234-177-21	FILTER, CHIP EMI			
FL706	1-234-177-21	FILTER, CHIP EMI			
FL707	1-234-177-21	FILTER, CHIP EMI			
FL708	1-234-177-21	FILTER, CHIP EMI			
FL709	1-239-400-11	FILTER, CHIP EMI			
FL710	1-239-400-11	FILTER, CHIP EMI			
FL711	1-234-177-21	FILTER, CHIP EMI			
FL712	1-234-177-21	FILTER, CHIP EMI			
FL713	1-234-177-21	FILTER, CHIP EMI			
FL714	1-234-177-21	FILTER, CHIP EMI			
FL715	1-234-177-21	FILTER, CHIP EMI			
FL716	1-234-177-21	FILTER, CHIP EMI			
FL717	1-239-400-11	FILTER, CHIP EMI			
FL718	1-239-400-11	FILTER, CHIP EMI			
FL719	1-234-177-21	FILTER, CHIP EMI			
FL720	1-239-400-11	FILTER, CHIP EMI			
FL721	1-234-177-21	FILTER, CHIP EMI			
FL722	1-234-177-21	FILTER, CHIP EMI			
FL724	1-234-177-21	FILTER, CHIP EMI			
FL725	1-234-177-21	FILTER, CHIP EMI			
FL727	1-234-177-21	FILTER, CHIP EMI			
FL728	1-239-400-11	FILTER, CHIP EMI			
FL729	1-234-177-21	FILTER, CHIP EMI			
FL730	1-234-177-21	FILTER, CHIP EMI			
FL731	1-234-177-21	FILTER, CHIP EMI			
FL732	1-239-400-11	FILTER, CHIP EMI			
FL733	1-234-177-21	FILTER, CHIP EMI			
FL734	1-234-177-21	FILTER, CHIP EMI			
FL735	1-234-177-21	FILTER, CHIP EMI			
FL736	1-239-400-11	FILTER, CHIP EMI			
FL737	1-239-400-11	FILTER, CHIP EMI			
FL740	1-234-177-21	FILTER, CHIP EMI			
FL741	1-239-400-11	FILTER, CHIP EMI			
FL742	1-234-177-21	FILTER, CHIP EMI			
FL743	1-234-177-21	FILTER, CHIP EMI			
FL744	1-239-400-11	FILTER, CHIP EMI			
FL747	1-234-177-21	FILTER, CHIP EMI			
FL748	1-234-177-21	FILTER, CHIP EMI			
FL749	1-234-177-21	FILTER, CHIP EMI			
		< IC/PHOTO COUPLER >			
IC501	8-759-333-63	IC LB1896-TE-B			
IC502	8-759-058-43	IC NJM3404AV (TE2)			
IC503	8-759-490-71	IC BA5912AFP-YE2			
IC504	8-759-522-13	IC BA5981FP-E2			

Ref. No.	Part No.	Description	Remark
IC505	8-759-490-71	IC BA5912AFP-YE2	
IC506	8-759-338-95	IC NJM2903V (TE2)	
IC507	8-759-082-61	IC TC4W53FU (TE12R)	
IC508	8-759-637-85	IC OPA2340UA/2K5	
IC509	8-759-058-45	IC NJM3403AV (TE2)	
IC510	8-759-058-43	IC NJM3404AV (TE2)	
IC511	8-759-338-95	IC NJM2903V (TE2)	
IC512	8-759-525-61	IC CXD8730R	
IC513	8-759-637-85	IC OPA2340UA/2K5	
IC514	8-759-585-52	IC SN74AHC1GU04DBVR	
IC515	8-759-245-52	IC TA7291F-EL	
IC516	8-759-585-51	IC SN74AHC1G32DBVR	
IC517	8-759-585-51	IC SN74AHC1G32DBVR	
IC519	8-759-082-60	IC TC7S66FU-TE85L	
IC520	8-759-082-60	IC TC7S66FU-TE85L	
IC521	8-759-082-60	IC TC7S66FU-TE85L	
IC522	8-759-585-52	IC SN74AHC1GU04DBVR	
IC523	8-759-082-60	IC TC7S66FU-TE85L	
IC701	8-759-337-66	IC HD6413002F16	
IC702	8-759-572-43	IC CXD1865AR	
IC703	8-752-400-62	IC CXD2750AQ	
IC707	8-759-585-57	IC KM416V1200CT-L6	
IC708	8-752-356-45	IC CXD2301Q	
IC709	8-759-498-69	IC MB81V17805A-60PFTN	
IC710	8-759-449-38	IC MSM10S0050-039GS-2K	
IC711	8-752-381-56	IC CXD1095AR	
IC712	8-752-381-56	IC CXD1095AR	
IC713	8-759-295-09	IC TLC2932IPW-E20	
IC714	8-759-295-09	IC TLC2932IPW-E20	
IC715	8-759-295-09	IC TLC2932IPW-E20	
IC716	(NOT SUPPLIED)	IC MBM29F400TC-90PF	
IC717	8-759-537-40	IC uPD431000AGZ-70LL-KJH	
IC718	8-759-537-40	IC uPD431000AGZ-70LL-KJH	
IC719	8-759-585-51	IC SN74AHC1G32DBVR	
IC720	8-759-585-51	IC SN74AHC1G32DBVR	
IC721	8-759-585-56	IC AD8052AR-REEL7	
IC722	8-759-585-56	IC AD8052AR-REEL7	
IC724	8-759-548-96	IC SN74LV02APWR	
IC725	8-759-585-54	IC SN74LVC240APWR	
IC726	8-759-549-15	IC SN74LV245APWR	
IC727	8-759-585-55	IC SN74LVC540APWR	
IC728	8-759-585-52	IC SN74AHC1GU04DBVR	
IC729	8-759-585-53	IC SN74AHCT245PWR	
IC730	8-759-585-53	IC SN74AHCT245PWR	
IC732	8-759-050-03	IC SN74HC151APWR	
IC734	8-759-635-83	IC M51957BFP-600D	
IC735	8-759-354-31	IC AT24C02N-10SC	
IC736	8-759-585-51	IC SN74AHC1G32DBVR	
IC737	8-759-585-51	IC SN74AHC1G32DBVR	
IC739	8-759-585-48	IC HD74LV4066ATEL	
IC740	8-759-486-55	IC NJM2370U33-TE2	
IC741	8-759-486-55	IC NJM2370U33-TE2	
IC750	8-759-585-51	IC SN74AHC1G32DBVR	
IC760	8-749-013-16	IC PC357N2T	
IC761	8-749-013-16	IC PC357N2T	
IC762	8-749-013-16	IC PC357N2T	
IC763	8-749-013-16	IC PC357N2T	
IC764	8-749-924-62	PHOTO COUPLER PC410T	
IC765	8-749-924-62	PHOTO COUPLER PC410T	
IC766	8-749-924-62	PHOTO COUPLER PC410T	
IC767	8-749-013-16	IC PC357N2T	
IC770	8-749-924-62	PHOTO COUPLER PC410T	
IC771	8-749-924-62	PHOTO COUPLER PC410T	
IC772	8-749-924-62	PHOTO COUPLER PC410T	
IC773	8-749-924-62	PHOTO COUPLER PC410T	
IC775	8-759-549-04	IC SN74LV138APWR	
IC776	8-759-585-50	IC SN74AHC1G08DBVR	
IC777	8-759-585-50	IC SN74AHC1G08DBVR	
IC778	8-759-585-50	IC SN74AHC1G08DBVR	
IC1501	8-759-441-31	IC MC14053BDTR2	
IC1502	8-759-637-85	IC OPA2340UA/2K5	
IC1503	8-759-637-85	IC OPA2340UA/2K5	
IC1651	8-759-637-85	IC OPA2340UA/2K5	

< TRANSISTOR >

Q501	8-729-015-74	TRANSISTOR	UN5111-TX	
Q502	8-729-015-76	TRANSISTOR	UN5211-TX	
Q506	8-729-015-76	TRANSISTOR	UN5211-TX	
Q507	8-729-015-76	TRANSISTOR	UN5211-TX	
Q508	8-729-023-22	TRANSISTOR	2SD2114KT146	
Q509	8-729-015-76	TRANSISTOR	UN5211-TX	
Q511	8-729-015-76	TRANSISTOR	UN5211-TX	
Q705	8-729-402-93	TRANSISTOR	UN5214-TX	
Q1651	8-729-220-93	FET	2SK209G-TE85L	
Q1652	8-729-015-76	TRANSISTOR	UN5211-TX	
Q1653	8-729-220-93	FET	2SK209G-TE85L	

< RESISTOR >

R500	1-216-864-11	METAL CHIP	0	5%	1/16W
R502	1-216-841-11	METAL CHIP	47K	5%	1/16W
R503	1-216-841-11	METAL CHIP	47K	5%	1/16W
R504	1-216-864-11	METAL CHIP	0	5%	1/16W
R505	1-216-864-11	METAL CHIP	0	5%	1/16W
R506	1-216-864-11	METAL CHIP	0	5%	1/16W
R507	1-216-864-11	METAL CHIP	0	5%	1/16W
R508	1-218-273-11	RES, CHIP	510K	5%	1/16W
R509	1-216-864-11	METAL CHIP	0	5%	1/16W
R510	1-216-821-11	METAL CHIP	1K	5%	1/16W
R511	1-216-864-11	METAL CHIP	0	5%	1/16W
R512	1-216-821-11	METAL CHIP	1K	5%	1/16W
R513	1-216-821-11	METAL CHIP	1K	5%	1/16W
R514	1-216-849-11	METAL CHIP	220K	5%	1/16W
R515	1-216-864-11	METAL CHIP	0	5%	1/16W
R516	1-216-849-11	METAL CHIP	220K	5%	1/16W
R518	1-216-845-11	METAL CHIP	100K	5%	1/16W
R519	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R520	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R521	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R522	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R523	1-216-798-11	RES, CHIP	12	5%	1/16W
R524	1-216-798-11	RES, CHIP	12	5%	1/16W
R525	1-216-798-11	RES, CHIP	12	5%	1/16W
R526	1-216-821-11	METAL CHIP	1K	5%	1/16W
R527	1-216-833-11	RES, CHIP	10K	5%	1/16W

MAIN

Ref. No.	Part No.	Description			Remark
R528	1-216-837-11	METAL CHIP	22K	5%	1/16W
R529	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R530	1-216-833-11	RES, CHIP	10K	5%	1/16W
R531	1-216-845-11	METAL CHIP	100K	5%	1/16W
R532	1-216-839-11	METAL CHIP	33K	5%	1/16W
R533	1-216-833-11	RES, CHIP	10K	5%	1/16W
R534	1-216-853-11	METAL CHIP	470K	5%	1/16W
R536	1-216-841-11	METAL CHIP	47K	5%	1/16W
R537	1-216-845-11	METAL CHIP	100K	5%	1/16W
R541	1-216-833-11	RES, CHIP	10K	5%	1/16W
R544	1-216-833-11	RES, CHIP	10K	5%	1/16W
R545	1-216-797-11	METAL CHIP	10	5%	1/16W
R546	1-216-797-11	METAL CHIP	10	5%	1/16W
R547	1-216-864-11	METAL CHIP	0	5%	1/16W
R549	1-216-864-11	METAL CHIP	0	5%	1/16W
R550	1-216-833-11	RES, CHIP	10K	5%	1/16W
R551	1-216-833-11	RES, CHIP	10K	5%	1/16W
R552	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R553	1-216-864-11	METAL CHIP	0	5%	1/16W
R554	1-216-833-11	RES, CHIP	10K	5%	1/16W
R555	1-216-839-11	METAL CHIP	33K	5%	1/16W
R559	1-216-797-11	METAL CHIP	10	5%	1/16W
R560	1-216-837-11	METAL CHIP	22K	5%	1/16W
R561	1-216-797-11	METAL CHIP	10	5%	1/16W
R562	1-216-797-11	METAL CHIP	10	5%	1/16W
R563	1-216-797-11	METAL CHIP	10	5%	1/16W
R564	1-218-446-11	METAL CHIP	1	5%	1/16W
R565	1-218-446-11	METAL CHIP	1	5%	1/16W
R566	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R567	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R569	1-216-833-11	RES, CHIP	10K	5%	1/16W
R570	1-216-837-11	METAL CHIP	22K	5%	1/16W
R571	1-216-833-11	RES, CHIP	10K	5%	1/16W
R572	1-216-836-11	METAL CHIP	18K	5%	1/16W
R573	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R575	1-216-833-11	RES, CHIP	10K	5%	1/16W
R576	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R578	1-216-797-11	METAL CHIP	10	5%	1/16W
R579	1-216-797-11	METAL CHIP	10	5%	1/16W
R580	1-216-837-11	METAL CHIP	22K	5%	1/16W
R581	1-216-797-11	METAL CHIP	10	5%	1/16W
R582	1-216-797-11	METAL CHIP	10	5%	1/16W
R583	1-218-446-11	METAL CHIP	1	5%	1/16W
R584	1-218-446-11	METAL CHIP	1	5%	1/16W
R585	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R586	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R587	1-216-835-11	METAL CHIP	15K	5%	1/16W
R588	1-216-844-11	METAL CHIP	82K	5%	1/16W
R589	1-216-837-11	METAL CHIP	22K	5%	1/16W
R590	1-216-833-11	RES, CHIP	10K	5%	1/16W
R591	1-216-836-11	METAL CHIP	18K	5%	1/16W
R592	1-216-833-11	RES, CHIP	10K	5%	1/16W
R593	1-216-841-11	METAL CHIP	47K	5%	1/16W
R594	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R595	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R597	1-216-864-11	METAL CHIP	0	5%	1/16W
R598	1-216-864-11	METAL CHIP	0	5%	1/16W
R599	1-216-797-11	METAL CHIP	10	5%	1/16W

Ref. No.	Part No.	Description			Remark
R600	1-216-797-11	METAL CHIP	10	5%	1/16W
R601	1-216-797-11	METAL CHIP	10	5%	1/16W
R602	1-216-820-11	METAL CHIP	820	5%	1/16W
R604	1-216-864-11	METAL CHIP	0	5%	1/16W
R605	1-216-864-11	METAL CHIP	0	5%	1/16W
R606	1-216-864-11	METAL CHIP	0	5%	1/16W
R608	1-216-837-11	METAL CHIP	22K	5%	1/16W
R609	1-216-864-11	METAL CHIP	0	5%	1/16W
R610	1-216-833-11	RES, CHIP	10K	5%	1/16W
R611	1-216-864-11	METAL CHIP	0	5%	1/16W
R612	1-216-833-11	RES, CHIP	10K	5%	1/16W
R614	1-216-845-11	METAL CHIP	100K	5%	1/16W
R615	1-216-813-11	METAL CHIP	220	5%	1/16W
R616	1-216-821-11	METAL CHIP	1K	5%	1/16W
R617	1-216-857-11	METAL CHIP	1M	5%	1/16W
R618	1-216-839-11	METAL CHIP	33K	5%	1/16W
R619	1-216-819-11	METAL CHIP	680	5%	1/16W
R620	1-216-833-11	RES, CHIP	10K	5%	1/16W
R621	1-216-833-11	RES, CHIP	10K	5%	1/16W
R622	1-216-839-11	METAL CHIP	33K	5%	1/16W
R623	1-216-857-11	METAL CHIP	1M	5%	1/16W
R624	1-216-819-11	METAL CHIP	680	5%	1/16W
R625	1-216-821-11	METAL CHIP	1K	5%	1/16W
R626	1-216-864-11	METAL CHIP	0	5%	1/16W
R627	1-216-864-11	METAL CHIP	0	5%	1/16W
R630	1-216-864-11	METAL CHIP	0	5%	1/16W
R631	1-216-845-11	METAL CHIP	100K	5%	1/16W
R632	1-216-845-11	METAL CHIP	100K	5%	1/16W
R633	1-216-864-11	METAL CHIP	0	5%	1/16W
R634	1-216-837-11	METAL CHIP	22K	5%	1/16W
R635	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R636	1-216-864-11	METAL CHIP	0	5%	1/16W
R637	1-216-837-11	METAL CHIP	22K	5%	1/16W
R638	1-216-805-11	METAL CHIP	47	5%	1/16W
R639	1-216-864-11	METAL CHIP	0	5%	1/16W
R641	1-218-874-11	METAL CHIP	13K	0.5%	1/16W
R642	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R643	1-216-833-11	RES, CHIP	10K	5%	1/16W
R644	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R645	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R646	1-216-805-11	METAL CHIP	47	5%	1/16W
R647	1-216-864-11	METAL CHIP	0	5%	1/16W
R648	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R649	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R650	1-216-837-11	METAL CHIP	22K	5%	1/16W
R651	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R652	1-216-839-11	METAL CHIP	33K	5%	1/16W
R653	1-216-837-11	METAL CHIP	22K	5%	1/16W
R654	1-216-833-11	RES, CHIP	10K	5%	1/16W
R655	1-216-857-11	METAL CHIP	1M	5%	1/16W
R656	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R657	1-216-864-11	METAL CHIP	0	5%	1/16W
R658	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R659	1-216-837-11	METAL CHIP	22K	5%	1/16W
R660	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R661	1-216-846-11	METAL CHIP	120K	5%	1/16W
R662	1-216-825-11	METAL CHIP	2.2K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R664	1-216-864-11	METAL CHIP	0	5%	1/16W
R667	1-216-845-11	METAL CHIP	100K	5%	1/16W
R669	1-216-864-11	METAL CHIP	0	5%	1/16W
R670	1-216-864-11	METAL CHIP	0	5%	1/16W
R671	1-216-864-11	METAL CHIP	0	5%	1/16W
R672	1-216-864-11	METAL CHIP	0	5%	1/16W
R673	1-216-864-11	METAL CHIP	0	5%	1/16W
R675	1-216-864-11	METAL CHIP	0	5%	1/16W
R677	1-216-809-11	METAL CHIP	100	5%	1/16W
R678	1-216-809-11	METAL CHIP	100	5%	1/16W
R679	1-216-809-11	METAL CHIP	100	5%	1/16W
R680	1-216-809-11	METAL CHIP	100	5%	1/16W
R681	1-216-809-11	METAL CHIP	100	5%	1/16W
R682	1-216-809-11	METAL CHIP	100	5%	1/16W
R683	1-216-809-11	METAL CHIP	100	5%	1/16W
R684	1-216-809-11	METAL CHIP	100	5%	1/16W
R685	1-216-833-11	RES, CHIP	10K	5%	1/16W
R686	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R687	1-216-833-11	RES, CHIP	10K	5%	1/16W
R688	1-216-864-11	METAL CHIP	0	5%	1/16W
R689	1-216-809-11	METAL CHIP	100	5%	1/16W
R690	1-216-797-11	METAL CHIP	10	5%	1/16W
R691	1-216-797-11	METAL CHIP	10	5%	1/16W
R692	1-216-809-11	METAL CHIP	100	5%	1/16W
R693	1-216-864-11	METAL CHIP	0	5%	1/16W
R694	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R695	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R696	1-218-847-11	METAL CHIP	1K	0.5%	1/16W
R697	1-218-847-11	METAL CHIP	1K	0.5%	1/16W
R698	1-218-847-11	METAL CHIP	1K	0.5%	1/16W
R699	1-218-847-11	METAL CHIP	1K	0.5%	1/16W
R700	1-216-809-11	METAL CHIP	100	5%	1/16W
R701	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R703	1-216-805-11	METAL CHIP	47	5%	1/16W
R704	1-216-805-11	METAL CHIP	47	5%	1/16W
R705	1-216-833-11	RES, CHIP	10K	5%	1/16W
R706	1-216-833-11	RES, CHIP	10K	5%	1/16W
R707	1-216-833-11	RES, CHIP	10K	5%	1/16W
R708	1-218-831-11	METAL CHIP	220	0.5%	1/16W
R709	1-218-853-11	METAL CHIP	1.8K	0.5%	1/16W
R710	1-218-847-11	METAL CHIP	1K	0.5%	1/16W
R711	1-218-855-11	METAL CHIP	2.2K	0.5%	1/16W
R712	1-218-881-11	METAL CHIP	27K	0.5%	1/16W
R713	1-218-885-11	METAL CHIP	39K	0.5%	1/16W
R715	1-216-809-11	METAL CHIP	100	5%	1/16W
R716	1-218-881-11	METAL CHIP	27K	0.5%	1/16W
R717	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R718	1-216-041-00	METAL CHIP	470	5%	1/10W
R719	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R720	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R721	1-216-833-11	RES, CHIP	10K	5%	1/16W
R722	1-216-837-11	METAL CHIP	22K	5%	1/16W
R723	1-216-801-11	METAL CHIP	22	5%	1/16W
R724	1-216-833-11	RES, CHIP	10K	5%	1/16W
R725	1-216-833-11	RES, CHIP	10K	5%	1/16W
R726	1-216-833-11	RES, CHIP	10K	5%	1/16W
R727	1-216-833-11	RES, CHIP	10K	5%	1/16W
R728	1-216-833-11	RES, CHIP	10K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R729	1-216-833-11	RES, CHIP	10K	5%	1/16W
R730	1-216-833-11	RES, CHIP	10K	5%	1/16W
R731	1-216-833-11	RES, CHIP	10K	5%	1/16W
R732	1-216-833-11	RES, CHIP	10K	5%	1/16W
R733	1-216-833-11	RES, CHIP	10K	5%	1/16W
R734	1-216-833-11	RES, CHIP	10K	5%	1/16W
R735	1-216-809-11	METAL CHIP	100	5%	1/16W
R736	1-216-809-11	METAL CHIP	100	5%	1/16W
R737	1-216-809-11	METAL CHIP	100	5%	1/16W
R738	1-216-801-11	METAL CHIP	22	5%	1/16W
R739	1-216-833-11	RES, CHIP	10K	5%	1/16W
R740	1-216-833-11	RES, CHIP	10K	5%	1/16W
R741	1-216-833-11	RES, CHIP	10K	5%	1/16W
R742	1-216-833-11	RES, CHIP	10K	5%	1/16W
R744	1-218-853-11	METAL CHIP	1.8K	0.5%	1/16W
R745	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R746	1-216-845-11	METAL CHIP	100K	5%	1/16W
R747	1-218-855-11	METAL CHIP	2.2K	0.5%	1/16W
R748	1-218-855-11	METAL CHIP	2.2K	0.5%	1/16W
R749	1-216-801-11	METAL CHIP	22	5%	1/16W
R750	1-216-801-11	METAL CHIP	22	5%	1/16W
R751	1-216-801-11	METAL CHIP	22	5%	1/16W
R752	1-216-801-11	METAL CHIP	22	5%	1/16W
R753	1-216-809-11	METAL CHIP	100	5%	1/16W
R754	1-216-801-11	METAL CHIP	22	5%	1/16W
R755	1-216-801-11	METAL CHIP	22	5%	1/16W
R756	1-216-801-11	METAL CHIP	22	5%	1/16W
R757	1-216-801-11	METAL CHIP	22	5%	1/16W
R758	1-216-801-11	METAL CHIP	22	5%	1/16W
R759	1-216-801-11	METAL CHIP	22	5%	1/16W
R760	1-216-801-11	METAL CHIP	22	5%	1/16W
R761	1-216-801-11	METAL CHIP	22	5%	1/16W
R762	1-216-807-11	METAL CHIP	68	5%	1/16W
R763	1-216-801-11	METAL CHIP	22	5%	1/16W
R764	1-216-805-11	METAL CHIP	47	5%	1/16W
R765	1-216-805-11	METAL CHIP	47	5%	1/16W
R766	1-216-864-11	METAL CHIP	0	5%	1/16W
R770	1-216-805-11	METAL CHIP	47	5%	1/16W
R774	1-216-833-11	RES, CHIP	10K	5%	1/16W
R775	1-216-833-11	RES, CHIP	10K	5%	1/16W
R777	1-216-833-11	RES, CHIP	10K	5%	1/16W
R778	1-216-814-11	METAL CHIP	270	5%	1/16W
R779	1-216-814-11	METAL CHIP	270	5%	1/16W
R780	1-216-864-11	METAL CHIP	0	5%	1/16W
R781	1-216-814-11	METAL CHIP	270	5%	1/16W
R782	1-216-814-11	METAL CHIP	270	5%	1/16W
R784	1-216-801-11	METAL CHIP	22	5%	1/16W
R785	1-216-801-11	METAL CHIP	22	5%	1/16W
R786	1-216-801-11	METAL CHIP	22	5%	1/16W
R798	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R799	1-216-805-11	METAL CHIP	47	5%	1/16W
R801	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R802	1-216-819-11	METAL CHIP	680	5%	1/16W
R803	1-216-821-11	METAL CHIP	1K	5%	1/16W
R804	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R805	1-216-839-11	METAL CHIP	33K	5%	1/16W
R806	1-216-821-11	METAL CHIP	1K	5%	1/16W

MAIN

Ref. No.	Part No.	Description			Remark
R808	1-216-809-11	METAL CHIP	100	5%	1/16W
R809	1-216-807-11	METAL CHIP	68	5%	1/16W
R810	1-216-813-11	METAL CHIP	220	5%	1/16W
R811	1-216-809-11	METAL CHIP	100	5%	1/16W
R812	1-216-807-11	METAL CHIP	68	5%	1/16W
R813	1-216-821-11	METAL CHIP	1K	5%	1/16W
R814	1-216-801-11	METAL CHIP	22	5%	1/16W
R815	1-216-801-11	METAL CHIP	22	5%	1/16W
R816	1-216-809-11	METAL CHIP	100	5%	1/16W
R817	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R818	1-216-864-11	METAL CHIP	0	5%	1/16W
R819	1-216-805-11	METAL CHIP	47	5%	1/16W
R820	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R821	1-216-821-11	METAL CHIP	1K	5%	1/16W
R822	1-216-809-11	METAL CHIP	100	5%	1/16W
R823	1-216-864-11	METAL CHIP	0	5%	1/16W
R824	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R825	1-216-833-11	RES, CHIP	10K	5%	1/16W
R826	1-216-805-11	METAL CHIP	47	5%	1/16W
R827	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R828	1-216-821-11	METAL CHIP	1K	5%	1/16W
R829	1-216-813-11	METAL CHIP	220	5%	1/16W
R830	1-216-809-11	METAL CHIP	100	5%	1/16W
R833	1-216-809-11	METAL CHIP	100	5%	1/16W
R834	1-216-809-11	METAL CHIP	100	5%	1/16W
R835	1-218-344-11	RES, CHIP	7.5K	5%	1/16W
R836	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R837	1-216-821-11	METAL CHIP	1K	5%	1/16W
R838	1-216-833-11	RES, CHIP	10K	5%	1/16W
R839	1-216-809-11	METAL CHIP	100	5%	1/16W
R840	1-216-809-11	METAL CHIP	100	5%	1/16W
R844	1-216-833-11	RES, CHIP	10K	5%	1/16W
R845	1-216-821-11	METAL CHIP	1K	5%	1/16W
R847	1-216-833-11	RES, CHIP	10K	5%	1/16W
R850	1-216-833-11	RES, CHIP	10K	5%	1/16W
R851	1-216-857-11	METAL CHIP	1M	5%	1/16W
R852	1-216-833-11	RES, CHIP	10K	5%	1/16W
R853	1-216-833-11	RES, CHIP	10K	5%	1/16W
R854	1-216-833-11	RES, CHIP	10K	5%	1/16W
R855	1-216-864-11	METAL CHIP	0	5%	1/16W
R866	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R867	1-216-809-11	METAL CHIP	100	5%	1/16W
R868	1-216-813-11	METAL CHIP	220	5%	1/16W
R870	1-216-809-11	METAL CHIP	100	5%	1/16W
R871	1-216-805-11	METAL CHIP	47	5%	1/16W
R873	1-216-805-11	METAL CHIP	47	5%	1/16W
R874	1-216-805-11	METAL CHIP	47	5%	1/16W
R875	1-216-805-11	METAL CHIP	47	5%	1/16W
R876	1-216-805-11	METAL CHIP	47	5%	1/16W
R877	1-216-805-11	METAL CHIP	47	5%	1/16W
R878	1-216-805-11	METAL CHIP	47	5%	1/16W
R879	1-216-805-11	METAL CHIP	47	5%	1/16W
R880	1-216-805-11	METAL CHIP	47	5%	1/16W
R881	1-216-815-11	METAL CHIP	330	5%	1/16W
R882	1-216-815-11	METAL CHIP	330	5%	1/16W
R883	1-216-815-11	METAL CHIP	330	5%	1/16W
R884	1-216-815-11	METAL CHIP	330	5%	1/16W
R885	1-216-814-11	METAL CHIP	270	5%	1/16W
R886	1-216-814-11	METAL CHIP	270	5%	1/16W
R887	1-216-814-11	METAL CHIP	270	5%	1/16W
R888	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R889	1-216-815-11	METAL CHIP	330	5%	1/16W
R890	1-216-805-11	METAL CHIP	47	5%	1/16W
R891	1-216-833-11	RES, CHIP	10K	5%	1/16W
R892	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R894	1-216-864-11	METAL CHIP	0	5%	1/16W
R895	1-216-833-11	RES, CHIP	10K	5%	1/16W
R899	1-216-833-11	RES, CHIP	10K	5%	1/16W
R902	1-216-833-11	RES, CHIP	10K	5%	1/16W
R903	1-216-833-11	RES, CHIP	10K	5%	1/16W
R904	1-216-833-11	RES, CHIP	10K	5%	1/16W
R905	1-216-833-11	RES, CHIP	10K	5%	1/16W
R906	1-216-833-11	RES, CHIP	10K	5%	1/16W
R907	1-216-805-11	METAL CHIP	47	5%	1/16W
R910	1-216-815-11	METAL CHIP	330	5%	1/16W
R911	1-216-815-11	METAL CHIP	330	5%	1/16W
R912	1-216-815-11	METAL CHIP	330	5%	1/16W
R913	1-216-815-11	METAL CHIP	330	5%	1/16W
R914	1-216-809-11	METAL CHIP	100	5%	1/16W
R915	1-216-809-11	METAL CHIP	100	5%	1/16W
R916	1-216-809-11	METAL CHIP	100	5%	1/16W
R917	1-216-809-11	METAL CHIP	100	5%	1/16W
R918	1-216-805-11	METAL CHIP	47	5%	1/16W
R919	1-216-805-11	METAL CHIP	47	5%	1/16W
R920	1-216-805-11	METAL CHIP	47	5%	1/16W
R921	1-216-805-11	METAL CHIP	47	5%	1/16W
R922	1-216-809-11	METAL CHIP	100	5%	1/16W
R923	1-216-809-11	METAL CHIP	100	5%	1/16W
R924	1-216-809-11	METAL CHIP	100	5%	1/16W
R925	1-216-805-11	METAL CHIP	47	5%	1/16W
R926	1-216-801-11	METAL CHIP	22	5%	1/16W
R927	1-216-801-11	METAL CHIP	22	5%	1/16W
R928	1-216-801-11	METAL CHIP	22	5%	1/16W
R929	1-216-833-11	RES, CHIP	10K	5%	1/16W
R930	1-216-864-11	METAL CHIP	0	5%	1/16W
R931	1-216-809-11	METAL CHIP	100	5%	1/16W
R932	1-216-801-11	METAL CHIP	22	5%	1/16W
R933	1-216-801-11	METAL CHIP	22	5%	1/16W
R934	1-216-801-11	METAL CHIP	22	5%	1/16W
R938	1-216-801-11	METAL CHIP	22	5%	1/16W
R939	1-216-801-11	METAL CHIP	22	5%	1/16W
R940	1-216-833-11	RES, CHIP	10K	5%	1/16W
R941	1-216-833-11	RES, CHIP	10K	5%	1/16W
R942	1-216-833-11	RES, CHIP	10K	5%	1/16W
R943	1-216-833-11	RES, CHIP	10K	5%	1/16W
R944	1-216-833-11	RES, CHIP	10K	5%	1/16W
R945	1-216-815-11	METAL CHIP	330	5%	1/16W
R946	1-216-815-11	METAL CHIP	330	5%	1/16W
R947	1-216-815-11	METAL CHIP	330	5%	1/16W
R948	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R949	1-216-833-11	RES, CHIP	10K	5%	1/16W
R951	1-216-809-11	METAL CHIP	100	5%	1/16W
R952	1-216-809-11	METAL CHIP	100	5%	1/16W
R953	1-216-864-11	METAL CHIP	0	5%	1/16W
R954	1-216-839-11	METAL CHIP	33K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R955	1-216-842-11	METAL CHIP	56K	5%	1/16W
R959	1-216-805-11	METAL CHIP	47	5%	1/16W
R966	1-216-833-11	RES, CHIP	10K	5%	1/16W
R968	1-216-837-11	METAL CHIP	22K	5%	1/16W
R969	1-216-864-11	METAL CHIP	0	5%	1/16W
R970	1-216-797-11	METAL CHIP	10	5%	1/16W
R971	1-216-833-11	RES, CHIP	10K	5%	1/16W
R972	1-216-851-11	METAL CHIP	330K	5%	1/16W
R973	1-216-864-11	METAL CHIP	0	5%	1/16W
R988	1-216-864-11	METAL CHIP	0	5%	1/16W
R989	1-216-864-11	METAL CHIP	0	5%	1/16W
R1501	1-216-821-11	METAL CHIP	1K	5%	1/16W
R1502	1-216-817-11	METAL CHIP	470	5%	1/16W
R1503	1-216-845-11	METAL CHIP	100K	5%	1/16W
R1504	1-216-834-11	METAL CHIP	12K	5%	1/16W
R1505	1-216-851-11	METAL CHIP	330K	5%	1/16W
R1506	1-216-845-11	METAL CHIP	100K	5%	1/16W
R1507	1-216-837-11	METAL CHIP	22K	5%	1/16W
R1508	1-216-849-11	METAL CHIP	220K	5%	1/16W
R1509	1-216-833-11	RES, CHIP	10K	5%	1/16W
R1510	1-216-833-11	RES, CHIP	10K	5%	1/16W
R1511	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R1512	1-216-833-11	RES, CHIP	10K	5%	1/16W
R1513	1-216-839-11	METAL CHIP	33K	5%	1/16W
R1522	1-216-833-11	RES, CHIP	10K	5%	1/16W
R1523	1-216-833-11	RES, CHIP	10K	5%	1/16W
R1525	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R1526	1-216-833-11	RES, CHIP	10K	5%	1/16W
R1532	1-216-864-11	METAL CHIP	0	5%	1/16W
R1551	1-218-881-11	METAL CHIP	27K	0.5%	1/16W
R1552	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1601	1-216-864-11	METAL CHIP	0	5%	1/16W
R1603	1-216-833-11	RES, CHIP	10K	5%	1/16W
R1606	1-216-833-11	RES, CHIP	10K	5%	1/16W
R1608	1-216-864-11	METAL CHIP	0	5%	1/16W
R1609	1-216-864-11	METAL CHIP	0	5%	1/16W
R1610	1-216-864-11	METAL CHIP	0	5%	1/16W
R1611	1-216-833-11	RES, CHIP	10K	5%	1/16W
R1651	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1652	1-216-847-11	RES, CHIP	150K	5%	1/16W
R1653	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R1654	1-216-847-11	RES, CHIP	150K	5%	1/16W
R1655	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1656	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1657	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1658	1-216-833-11	RES, CHIP	10K	5%	1/16W
R1659	1-216-833-11	RES, CHIP	10K	5%	1/16W
R1660	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R1662	1-216-841-11	METAL CHIP	47K	5%	1/16W
R1663	1-216-843-11	RES, CHIP	68K	5%	1/16W

< CHECKER >

TP501	1-535-757-11	CHIP, CHECKER
TP502	1-535-757-11	CHIP, CHECKER
TP503	1-535-757-11	CHIP, CHECKER
TP505	1-535-757-11	CHIP, CHECKER
TP506	1-535-757-11	CHIP, CHECKER
TP507	1-535-757-11	CHIP, CHECKER
TP508	1-535-757-11	CHIP, CHECKER
TP511	1-535-757-11	CHIP, CHECKER
TP513	1-535-757-11	CHIP, CHECKER
TP515	1-535-757-11	CHIP, CHECKER
TP516	1-535-757-11	CHIP, CHECKER
TP517	1-535-757-11	CHIP, CHECKER
TP518	1-535-757-11	CHIP, CHECKER
TP519	1-535-757-11	CHIP, CHECKER
TP520	1-535-757-11	CHIP, CHECKER
TP521	1-535-757-11	CHIP, CHECKER
TP522	1-535-757-11	CHIP, CHECKER
TP523	1-535-757-11	CHIP, CHECKER
TP524	1-535-757-11	CHIP, CHECKER
TP525	1-535-757-11	CHIP, CHECKER
TP526	1-535-757-11	CHIP, CHECKER
TP527	1-535-757-11	CHIP, CHECKER
TP528	1-535-757-11	CHIP, CHECKER
TP529	1-535-757-11	CHIP, CHECKER
TP530	1-535-757-11	CHIP, CHECKER
TP531	1-535-757-11	CHIP, CHECKER
TP701	1-535-757-11	CHIP, CHECKER
TP702	1-535-757-11	CHIP, CHECKER
TP703	1-535-757-11	CHIP, CHECKER
TP704	1-535-757-11	CHIP, CHECKER
TP705	1-535-757-11	CHIP, CHECKER
TP706	1-535-757-11	CHIP, CHECKER
TP708	1-535-757-11	CHIP, CHECKER
TP710	1-535-757-11	CHIP, CHECKER
TP711	1-535-757-11	CHIP, CHECKER
TP712	1-535-757-11	CHIP, CHECKER
TP716	1-535-757-11	CHIP, CHECKER

< VIBRATOR >

X701	1-767-347-11	VIBRATOR, CRYSTAL (16MHz)			

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	1-673-858-14	OPT BOARD			
		**********			

< CAPACITOR >

C997	1-136-850-11	FILM	0.1uF	5%	63V
C998	1-128-197-11	ELECT	10uF	20%	50V

< IC >

IC991	8-749-921-12	IC GP1F32T (DIGITAL OUT (CD) OPTICAL)

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	1-673-855-14	PIN BOARD
		**********

< DIODE >

D150	8-719-911-19	DIODE 1SS133T-72

< RELAY >

RY150	1-755-294-11	RELAY

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POWER | RF

Ref. No.	Part No.	Description				Remark
	A-4724-529-A	POWER BOARD, COMPLETE				
		**********				
	1-533-233-11	HOLDER, FUSE				
	2-259-121-01	SCREW, TR				
*	4-921-402-01	HEAT SINK				
*	4-941-237-01	HEAT SINK				
		< CAPACITOR >				
C413	1-128-651-11	ELECT	4700uF	20%	63V	
C414	1-128-651-11	ELECT	4700uF	20%	63V	
C415	1-136-850-11	FILM	0.1uF	5%	63V	
C416	1-136-850-11	FILM	0.1uF	5%	63V	
C417	1-136-850-11	FILM	0.1uF	5%	63V	
C418	1-128-090-11	ELECT	470uF	20%	50V	
C419	1-128-090-11	ELECT	470uF	20%	50V	
C420	1-128-090-11	ELECT	470uF	20%	50V	
C421	1-119-796-21	ELECT	4700uF	20%	16V	
C422	1-128-091-11	ELECT	1000uF	20%	50V	
C423	1-128-091-11	ELECT	1000uF	20%	50V	
C424	1-119-824-31	ELECT	10uF	20%	50V	
C425	1-136-850-11	FILM	0.1uF	5%	63V	
C451	1-161-494-00	CERAMIC	0.022uF		25V	
C452	1-161-494-00	CERAMIC	0.022uF		25V	
C453	1-119-824-31	ELECT	10uF	20%	50V	
C454	1-128-563-11	ELECT	100uF	20%	100V	
C455	1-128-652-21	MYLAR	1uF		63V	
C456	1-128-652-21	MYLAR	1uF		63V	
C457	1-128-650-51	ELECT	2200uF	20%	25V	
C458	1-128-648-21	ELECT	10000uF	20%	25V	
C459	1-128-650-51	ELECT	2200uF	20%	25V	
C460	1-128-649-21	ELECT	15000uF	20%	16V	
C461	1-128-650-51	ELECT	2200uF	20%	25V	
C462	1-128-648-21	ELECT	10000uF	20%	25V	
C463	1-128-652-21	MYLAR	1uF		63V	
C464	1-128-652-21	MYLAR	1uF		63V	
C465	1-119-824-31	ELECT	10uF	20%	50V	
C466	1-128-652-21	MYLAR	1uF		63V	
		< CONNECTOR >				
* CN401	1-564-242-00	PIN, CONNECTOR 5P				
* CN402	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P				
* CN403	1-564-506-11	PLUG, CONNECTOR 3P				
* CN404	1-564-506-11	PLUG, CONNECTOR 3P				
* CN405	1-564-506-11	PLUG, CONNECTOR 3P				
* CN406	1-564-506-11	PLUG, CONNECTOR 3P				
* CN451	1-564-507-11	PLUG, CONNECTOR 4P				
* CN452	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P				
* CN453	1-568-938-11	PIN, CONNECTOR 11P				
* CN454	1-564-509-11	PLUG, CONNECTOR 6P				
		< DIODE >				
D403	8-719-210-30	DIODE F10P20F (R)				
D404	8-719-210-38	DIODE F10P20FR				
D405	8-719-109-85	DIODE MTZJ-T-72-5.1B				
D406	8-719-312-47	DIODE RBA-406B				
D407	8-719-312-47	DIODE RBA-406B				
D408	8-719-200-82	DIODE 11ES2-TA2B				
D409	8-719-200-82	DIODE 11ES2-TA2B				
D410	8-719-210-30	DIODE F10P20F (R)				
D411	8-719-210-38	DIODE F10P20FR				
D451	8-719-175-88	DIODE RD7.5F-T7B3				
D452	8-719-983-94	DIODE MTZJ-T-72-36D				
D453	8-719-200-82	DIODE 11ES2-TA2B				
D454	8-719-312-47	DIODE RBA-406B				
D455	8-719-312-47	DIODE RBA-406B				
D456	8-719-312-47	DIODE RBA-406B				
D457	8-719-200-82	DIODE 11ES2-TA2B				
D458	8-719-200-82	DIODE 11ES2-TA2B				
D459	8-719-109-85	DIODE MTZJ-T-72-5.1B				
		<FUSE>				
⚠F451	1-532-259-11	FUSE, TIME-LAG (T1.6AL/250V) (AEP)				
⚠F451	1-532-742-11	FUSE, GLASS TUBE (1.6A/125V)				(US,Canadian)
⚠F452	1-532-259-11	FUSE, TIME-LAG (T1.6AL/250V) (AEP)				
⚠F452	1-532-742-11	FUSE, GLASS TUBE (1.6A/125V)				(US,Canadian)
⚠F453	1-532-259-11	FUSE, TIME-LAG (T1.6AL/250V) (AEP)				
⚠F453	1-532-742-11	FUSE, GLASS TUBE (1.6A/125V)				(US,Canadian)
		< IC >				
IC401	8-759-450-47	IC BA05T				
IC402	8-759-701-59	IC M5F7809L				
IC403	8-759-604-49	IC M5F7909L				
IC451	8-759-394-35	IC BA12T				
IC452	8-759-593-62	IC uPC24A05HF				
IC453	8-759-445-59	IC BA033T				
		< COIL >				
L451	1-414-510-21	INDUCTOR	3.3uH			
L452	1-414-510-21	INDUCTOR	3.3uH			
L453	1-412-473-21	INDUCTOR	0uH			
L454	1-412-473-21	INDUCTOR	0uH			
		< TRANSISTOR >				
Q451	8-729-041-38	TRANSISTOR	2SB1241TV2Q			
		< RESISTOR >				
⚠R429	1-212-893-00	FUSIBLE	330	5%	1/4W	F
R451	1-259-404-11	CARBON	100	5%	1/6W	
R452	1-259-404-11	CARBON	100	5%	1/6W	
R453	1-259-458-11	CARBON	18K	5%	1/6W	
R454	1-259-440-11	CARBON	3.3K	5%	1/6W	
R455	1-259-440-11	CARBON	3.3K	5%	1/6W	
⚠R456	1-212-873-11	FUSIBLE	47	5%	1/4W	F
R457	1-259-488-11	CARBON	330K	5%	1/6W	
⚠R458	1-212-893-00	FUSIBLE	330	5%	1/4W	F
		**********				
	A-4724-513-A	RF BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C001	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	
C002	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	
C003	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
C004	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C005	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C006	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C007	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C008	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C009	1-163-018-00	CERAMIC CHIP	0.0056uF	5%	50V
C010	1-163-018-00	CERAMIC CHIP	0.0056uF	5%	50V
C011	1-163-006-11	CERAMIC CHIP	560PF	10%	50V
C012	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C013	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C014	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C015	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C016	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C017	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C018	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C019	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C020	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C021	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C022	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C023	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C024	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C025	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C026	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V
C027	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C028	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C029	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C030	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C031	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C032	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C033	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C036	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C038	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C039	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C040	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C043	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C044	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C045	1-124-779-00	ELECT CHIP	10uF	20%	16V
C046	1-124-779-00	ELECT CHIP	10uF	20%	16V
C047	1-124-779-00	ELECT CHIP	10uF	20%	16V
C048	1-124-779-00	ELECT CHIP	10uF	20%	16V
C049	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C050	1-124-779-00	ELECT CHIP	10uF	20%	16V
C051	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C052	1-124-779-00	ELECT CHIP	10uF	20%	16V
C053	1-124-779-00	ELECT CHIP	10uF	20%	16V
C054	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C055	1-124-779-00	ELECT CHIP	10uF	20%	16V
C056	1-104-852-11	TANTALUM CHIP	22uF	10%	10V
C057	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C058	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C059	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C060	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C062	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C065	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C066	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C067	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C068	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C069	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C070	1-104-760-11	CERAMIC CHIP	0.047uF	10%	50V
C072	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C073	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C075	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C076	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C077	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C081	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C082	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C084	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C085	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C086	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C089	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C099	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
		< CONNECTOR >			
CN001	1-784-383-21	CONNECTOR (FFC/FPC) 26P			
CN002	1-784-383-21	CONNECTOR (FFC/FPC) 26P			
CN003	1-779-342-21	CONNECTOR, FFC/FPC 42P			
* CN004	1-580-056-21	PIN, CONNECTOR (SMD) 3P			
* CN005	1-580-055-21	PIN, CONNECTOR (SMD) 2P			
* CN006	1-569-775-21	PIN, CONNECTOR (SMD) 5P			
CN007	1-568-237-11	CONNECTOR, FPC (1.0MM) (ZIF)14P			
* CN019	1-569-775-21	PIN, CONNECTOR (SMD) 5P			
		< IC >			
IC001	8-749-016-23	IC SSI33P3721-R4			
IC002	8-759-701-39	IC NJM3404AM-TE2			
IC003	8-759-701-39	IC NJM3404AM-TE2			
IC004	8-759-701-36	IC NJM3403AM (TE2)			
IC005	8-759-929-26	IC TL431CPS-E05			
IC006	8-759-701-36	IC NJM3403AM (TE2)			
IC007	8-759-009-07	IC MC14053BFEL			
IC010	8-759-058-58	IC TC7S04FU (TE85R)			
IC011	8-759-009-07	IC MC14053BFEL			
IC012	8-759-082-60	IC TC7S66FU-TE85L			
		< COIL >			
L001	1-412-031-11	INDUCTOR CHIP	47uH		
L002	1-412-031-11	INDUCTOR CHIP	47uH		
L003	1-412-031-11	INDUCTOR CHIP	47uH		
		< TRANSISTOR >			
Q001	8-729-402-45	TRANSISTOR	UN5212-TX		
Q002	8-729-805-25	TRANSISTOR	2SB1121-ST-TD		
Q003	8-729-805-25	TRANSISTOR	2SB1121-ST-TD		
Q004	8-729-805-25	TRANSISTOR	2SB1121-ST-TD		
Q006	8-729-230-63	TRANSISTOR	2SD1819A-QRS-TX		
Q007	8-729-420-24	TRANSISTOR	2SB1218A-QRS-TX		
Q008	8-729-805-25	TRANSISTOR	2SB1121-ST-TD		
Q009	8-729-805-25	TRANSISTOR	2SB1121-ST-TD		
		< RESISTOR >			
R1	1-247-887-00	CARBON	220K	5%	1/4W
R2	1-247-885-00	CARBON	180K	5%	1/4W
R002	1-216-035-00	METAL CHIP	270	5%	1/10W
R003	1-216-081-00	METAL CHIP	22K	5%	1/10W
R004	1-216-081-00	METAL CHIP	22K	5%	1/10W
R005	1-216-047-00	RES, CHIP	820	5%	1/10W

RF **SLD-FG** **SLD-MOT** **STB**

Ref. No.	Part No.	Description			Remark
R006	1-216-295-00	SHORT	0		
R007	1-216-295-00	SHORT	0		
R008	1-216-689-11	METAL CHIP	39K	5%	1/10W
R009	1-216-689-11	METAL CHIP	39K	5%	1/10W
R010	1-216-295-00	SHORT	0		
R011	1-216-075-00	METAL CHIP	12K	5%	1/10W
R014	1-216-295-00	SHORT	0		
R015	1-216-295-00	SHORT	0		
R016	1-216-295-00	SHORT	0		
R017	1-216-295-00	SHORT	0		
R018	1-216-295-00	SHORT	0		
R019	1-216-073-00	METAL CHIP	10K	5%	1/10W
R020	1-216-073-00	METAL CHIP	10K	5%	1/10W
R022	1-216-295-00	SHORT	0		
R023	1-216-295-00	SHORT	0		
R024	1-216-073-00	METAL CHIP	10K	5%	1/10W
R025	1-216-081-00	METAL CHIP	22K	5%	1/10W
R026	1-216-295-00	SHORT	0		
R028	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R030	1-216-081-00	METAL CHIP	22K	5%	1/10W
R031	1-216-295-00	SHORT	0		
R034	1-216-073-00	METAL CHIP	10K	5%	1/10W
R035	1-216-073-00	METAL CHIP	10K	5%	1/10W
R036	1-216-049-11	RES, CHIP	1K	5%	1/10W
R037	1-216-073-00	METAL CHIP	10K	5%	1/10W
R039	1-216-073-00	METAL CHIP	10K	5%	1/10W
R040	1-216-073-00	METAL CHIP	10K	5%	1/10W
R042	1-216-295-00	SHORT	0		
R043	1-216-089-00	RES, CHIP	47K	5%	1/10W
R045	1-216-295-00	SHORT	0		
R046	1-216-001-00	METAL CHIP	10	5%	1/10W
R047	1-216-049-11	RES, CHIP	1K	5%	1/10W
R048	1-216-041-00	METAL CHIP	470	5%	1/10W
R049	1-216-005-00	METAL CHIP	15	5%	1/10W
R050	1-216-001-00	METAL CHIP	10	5%	1/10W
R051	1-216-033-00	METAL CHIP	220	5%	1/10W
R053	1-216-295-00	SHORT	0		
R055	1-216-295-00	SHORT	0		
R057	1-216-295-00	SHORT	0		
R058	1-216-037-00	METAL CHIP	330	5%	1/10W
R059	1-216-005-00	METAL CHIP	15	5%	1/10W
R060	1-216-089-00	RES, CHIP	47K	5%	1/10W
R061	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R062	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R065	1-216-295-00	SHORT	0		
R066	1-216-295-00	SHORT	0		
R067	1-216-097-00	RES, CHIP	100K	5%	1/10W
R068	1-216-097-00	RES, CHIP	100K	5%	1/10W
R069	1-216-085-00	METAL CHIP	33K	5%	1/10W
R070	1-216-121-00	RES, CHIP	1M	5%	1/10W
R071	1-216-097-00	RES, CHIP	100K	5%	1/10W
R072	1-216-097-00	RES, CHIP	100K	5%	1/10W
R073	1-216-109-00	METAL CHIP	330K	5%	1/10W
R074	1-216-085-00	METAL CHIP	33K	5%	1/10W
R075	1-216-085-00	METAL CHIP	33K	5%	1/10W
R076	1-216-089-00	RES, CHIP	47K	5%	1/10W
R077	1-216-295-00	SHORT	0		

Ref. No.	Part No.	Description			Remark
R078	1-216-073-00	METAL CHIP	10K	5%	1/10W
R079	1-216-085-00	METAL CHIP	33K	5%	1/10W
R081	1-216-073-00	METAL CHIP	10K	5%	1/10W
R082	1-216-077-91	RES, CHIP	15K	5%	1/10W
R084	1-216-073-00	METAL CHIP	10K	5%	1/10W
R086	1-216-083-00	METAL CHIP	27K	5%	1/10W
R087	1-216-049-11	RES, CHIP	1K	5%	1/10W
R088	1-216-033-00	METAL CHIP	220	5%	1/10W
R089	1-216-089-00	RES, CHIP	47K	5%	1/10W
R090	1-216-033-00	METAL CHIP	220	5%	1/10W
R091	1-216-025-00	RES, CHIP	100	5%	1/10W
R092	1-216-024-00	RES, CHIP	91	5%	1/10W
R093	1-216-073-00	METAL CHIP	10K	5%	1/10W
R094	1-216-089-00	RES, CHIP	47K	5%	1/10W
R095	1-216-073-00	METAL CHIP	10K	5%	1/10W
R096	1-216-073-00	METAL CHIP	10K	5%	1/10W
		< CHECKER >			
TP001	1-535-757-11	CHIP, CHECKER			
TP002	1-535-757-11	CHIP, CHECKER			
**********					
	1-673-852-12	SLD-FG BOARD			
		**********			
		< CAPACITOR >			
C088	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
		< CONNECTOR >			
* CN010	1-580-056-21	PIN, CONNECTOR (SMD) 3P			
		< IC >			
IC008	8-749-015-77	IC RPI-441C1			
		< RESISTOR >			
R097	1-216-037-00	METAL CHIP	330	5%	1/10W
**********					
	1-673-851-12	SLD-MOT BOARD			
		**********			
		< CONNECTOR >			
* CN011	1-569-775-21	PIN, CONNECTOR (SMD) 5P			
		< SWITCH >			
S001	1-571-754-11	SWITCH, PUSH (1 KEY) (OUT)			
S002	1-571-754-11	SWITCH, PUSH (1 KEY) (IN)			
**********					
	1-673-866-12	STB BOARD			
		**********			
	4-215-802-01	HOLDER (SENSER 3)			
		< CAPACITOR >			
C092	1-109-982-11	CERAMIC CHIP	1uF	10%	10V

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
* CN015	1-573-044-11	SOCKET, CONNECTOR 5P			
		< DIODE >			
D002	8-719-938-07	LED GL480 (STABILIZER DETECT)			
		< IC >			
IC009	8-749-010-61	IC IS471F			
		< RESISTOR >			
R099	1-249-403-11	CARBON	68	5%	1/4W
**********					
	1-673-859-14	SW BOARD *********			
		< SWITCH >			
S170	1-571-083-31	SWITCH, SLIDE (BALANCED OUT) (SCD-1)			
S171	1-571-083-31	SWITCH, SLIDE (COMMAND MODE)			
S173	1-571-083-31	SWITCH, SLIDE (STANDARD/CUSTOM)			
**********					
	1-673-862-13	SW-L BOARD **********			
		< CONNECTOR >			
* CN1006	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
		< RESISTOR >			
R1051	1-216-045-00	METAL CHIP	680	5%	1/10W
R1052	1-216-049-11	RES, CHIP	1K	5%	1/10W
R1053	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R1054	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
		< SWITCH >			
S1001	1-554-303-21	SWITCH, TACTILE (⏏)			
S1002	1-554-303-21	SWITCH, TACTILE (TIME)			
S1003	1-554-303-21	SWITCH, TACTILE (TEXT)			
S1004	1-554-303-21	SWITCH, TACTILE (CD DIGITAL OUT)			
S1005	1-554-303-21	SWITCH, TACTILE (CD FILTER)			
**********					
	1-673-863-12	SW-R BOARD **********			
*	3-362-478-11	HOLDER (T), LED			
		< DIODE >			
D1001	8-719-301-44	LED SEL2410E-C-TP2 (SACD)			
D1002	8-719-301-44	LED SEL2410E-C-TP2 (CD)			
D1003	8-719-301-44	LED SEL2410E-C-TP2 (▷)			
D1004	8-719-301-60	LED SEL2910A-C-TP2 (▮▮)			
		< RESISTOR >			
R1055	1-216-045-00	METAL CHIP	680	5%	1/10W
R1056	1-216-049-11	RES, CHIP	1K	5%	1/10W
R1057	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R1058	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R1059	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R1061	1-216-025-00	RES, CHIP	100	5%	1/10W
R1062	1-216-025-00	RES, CHIP	100	5%	1/10W
R1063	1-216-025-00	RES, CHIP	100	5%	1/10W
R1064	1-216-025-00	RES, CHIP	100	5%	1/10W
		< SWITCH >			
S1006	1-554-303-21	SWITCH, TACTILE (■)			
S1007	1-554-303-21	SWITCH, TACTILE (SACD/CD)			
S1008	1-554-303-21	SWITCH, TACTILE (▷)			
S1009	1-554-303-21	SWITCH, TACTILE (▮▮)			
S1010	1-554-303-21	SWITCH, TACTILE (▷▷⏐)			
S1011	1-554-303-21	SWITCH, TACTILE (⏐◁◁)			
**********					
		MISCELLANEOUS **********			
104	1-790-587-11	WIRE (FLAT TYPE) (5 CORE)			
252	1-790-659-11	WIRE (FLAT TYPE) (26 CORE)			
256	1-771-685-21	SWITCH, PUSH (CONTROL BLOCK) (WIRE)			
458	1-790-591-11	WIRE (FLAT TYPE) (14 CORE)			
⚠468	8-820-005-02	OPTICAL PICK-UP KHS-180A/J1RP			
469	1-665-390-11	OP-15 FLEXIBLE PRINT BOARD			
J150	1-568-918-31	JACK, PIN 1P (LINE OUT (ANALOG) L)			(SCD-777ES)
J150	1-568-918-31	JACK, PIN 1P (LINE OUT (ANALOG) UNBALANCED L) (SCD-1)			
J170	1-563-030-21	CONNECTOR (RECEPTACLE) 3P (LINE OUT (ANALOG) BALANCED L) (SCD-1)			
J250	1-568-918-31	JACK, PIN 1P (LINE OUT (ANALOG) UNBALANCED R) (SCD-1)			
J250	1-568-918-41	JACK, PIN 1P (LINE OUT (ANALOG) R)			(SCD-777ES)
J270	1-563-030-21	CONNECTOR (RECEPTACLE) 3P (LINE OUT (ANALOG) BALANCED R) (SCD-1)			
M1	A-4672-674-A	MOTOR ASSY (LOADING)			
M2	X-4952-147-1	SLED MOTOR ASSY			
M3	X-4952-148-1	TILT MOTOR ASSY			
M7	1-763-254-11	MOTOR (SPINDLE)			
S901	1-771-685-11	SWITCH, PUSH (CONTROL BLOCK)			
⚠T401	1-435-108-11	TRANSFORMER, POWER (ANALOG)			(SCD-777ES: AEP)
⚠T401	1-435-110-11	TRANSFORMER, POWER (ANALOG)			(SCD-777ES: US, Canadian)
⚠T401	1-435-114-11	TRANSFORMER, POWER (ANALOG)			(SCD-1: AEP)
⚠T401	1-435-116-11	TRANSFORMER, POWER (ANALOG)			(SCD-1: US, Canadian)
⚠T451	1-435-109-11	TRANSFORMER, POWER (DIGITAL)			(SCD-777ES: AEP)
⚠T451	1-435-111-11	TRANSFORMER, POWER (DIGITAL)			(SCD-777ES: US, Canadian)
⚠T451	1-435-115-11	TRANSFORMER, POWER (DIGITAL)			(SCD-1: AEP)
⚠T451	1-435-117-11	TRANSFORMER, POWER (DIGITAL)			(SCD-1: US, Canadian)
**********					

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-880-04	SCREW +BVTT 4X6 (S)	
#2	7-682-361-04	SCREW +RK 4X8 (SCD-1, SCD-777ES: GOLD)	
#2	7-682-261-09	SCREW +RK 4X8 (SCD-777ES: BLACK)	
#3	7-685-645-79	SCREW +BVTP 3X6 TYPE2 SLIT	
#4	7-685-873-09	SCREW +BVTT 3X10 (S)	
#5	7-628-253-90	SCREW +PS 2.6X4	
#6	7-621-775-10	SCREW +B 2.6X4	
#7	7-627-556-17	SCREW, PRECISION +P 2.6X3 TYPE1	
#8	7-682-544-09	SCREW +B 3X3	
#9	7-682-245-09	SCREW +K 3X4	
#10	7-682-546-04	SCREW +B 3X5	
#11	7-685-871-01	SCREW +BVTT 3X6 (S)	
#12	7-621-773-95	SCREW +B 2.6X6	
#13	7-682-663-09	SCREW +PS 4X12 (SCD-1)	
#13	7-685-883-09	SCREW +BVTT 4X12 (S) (SCD-777ES)	
#14	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#15	7-684-024-04	N 4, TYPE 2	
#16	7-623-423-07	LW 4, TYPE B	
#17	7-682-548-09	SCREW (3X8)	
#18	7-685-659-14	SCREW +BVTP 4X8 TYPE2 N-S (SCD-1)	
#18	7-685-659-79	SCREW +BVTP 4X8 TYPE2 N-S (SCD-777ES)	
#19	7-682-962-01	SCREW +PSW 4X10 (SCD-1)	
#19	7-682-962-09	SCREW +PSW 4X10 (SCD-777ES)	
#20	7-685-133-19	SCREW +P 2.6X6 TYPE2 NON-SLIT	
#21	7-685-645-14	SCREW +BVTP 3X6 TYPE2 N-S	
#22	7-621-775-20	SCREW +B 2.6X5	
#23	7-682-247-09	SCREW +K 3X6	
#25	7-682-564-09	SCREW +B 4X14	
* #26	7-683-421-04	BOLT, HEXAGON SOCKET 4X12	
#27	7-682-546-09	SCREW +B 3X5	
#29	7-682-549-09	SCREW +B 3X10	
#30	7-627-854-07	PRECISION SCREW +P 2X2.5 TYPE3	
#31	7-627-556-98	SCREW, PRECISION +P 2.6X8 TYPE1	
#32	7-682-646-09	SCREW +PS 3X5	
#33	7-627-556-37	SCREW, PRECISION +P 2.6X4 TYPE 1	
#34	7-682-949-01	SCREW +PSW 3X10	
#36	7-685-880-09	SCREW +BVTT 4X6 (S)	
#37	7-685-886-09	SCREW +BVTT 4X20 (S)	
#38	7-682-649-09	SCREW +PS 3X10	
#40	7-683-435-04	BOLT, HEXAGON SOCKET 5X10	(SCD-777ES: BLACK)
* #41	7-683-419-04	BOLT, HEXAGON SOCKET 4X8	(SCD-777ES: BLACK)
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-418-347-11	REMOTE COMMANDER (RMD-DS1)	
	1-506-411-21	ADAPTOR, AC PLUG 3P-2P (US, Canadian)	
	1-551-631-22	CORD, POWER (AEP)	
	1-551-812-11	CORD, POWER (US, Canadian)	
	1-558-271-11	CORD, CONNECTION	
	3-865-537-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH)	(SCD-1)
	3-865-537-21	MANUAL, INSTRUCTION (GERMAN, SPANISH, DUTCH)	(SCD-1: AEP)
	3-865-537-31	MANUAL, INSTRUCTION (SWEDISH, ITALIAN, PORTUGUESE)	(SCD-1: AEP)
	3-868-032-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH)	(SCD-777ES)
	3-868-032-21	MANUAL, INSTRUCTION (GERMAN, SPANISH, DUTCH)	(SCD-777ES: AEP)
	3-868-032-31	MANUAL, INSTRUCTION (SWEDISH, ITALIAN, PORTUGUESE)	(SCD-777ES: AEP)
	4-214-892-01	COVER, BATTERY (for RMD-DS1)	
	A-4672-800-A	STABILIZER ASSY	

Sony Corporation
Home Audio Company

99H0503-1D
Printed in Japan © 1999. 8
Published by Quality Assurance Dept.